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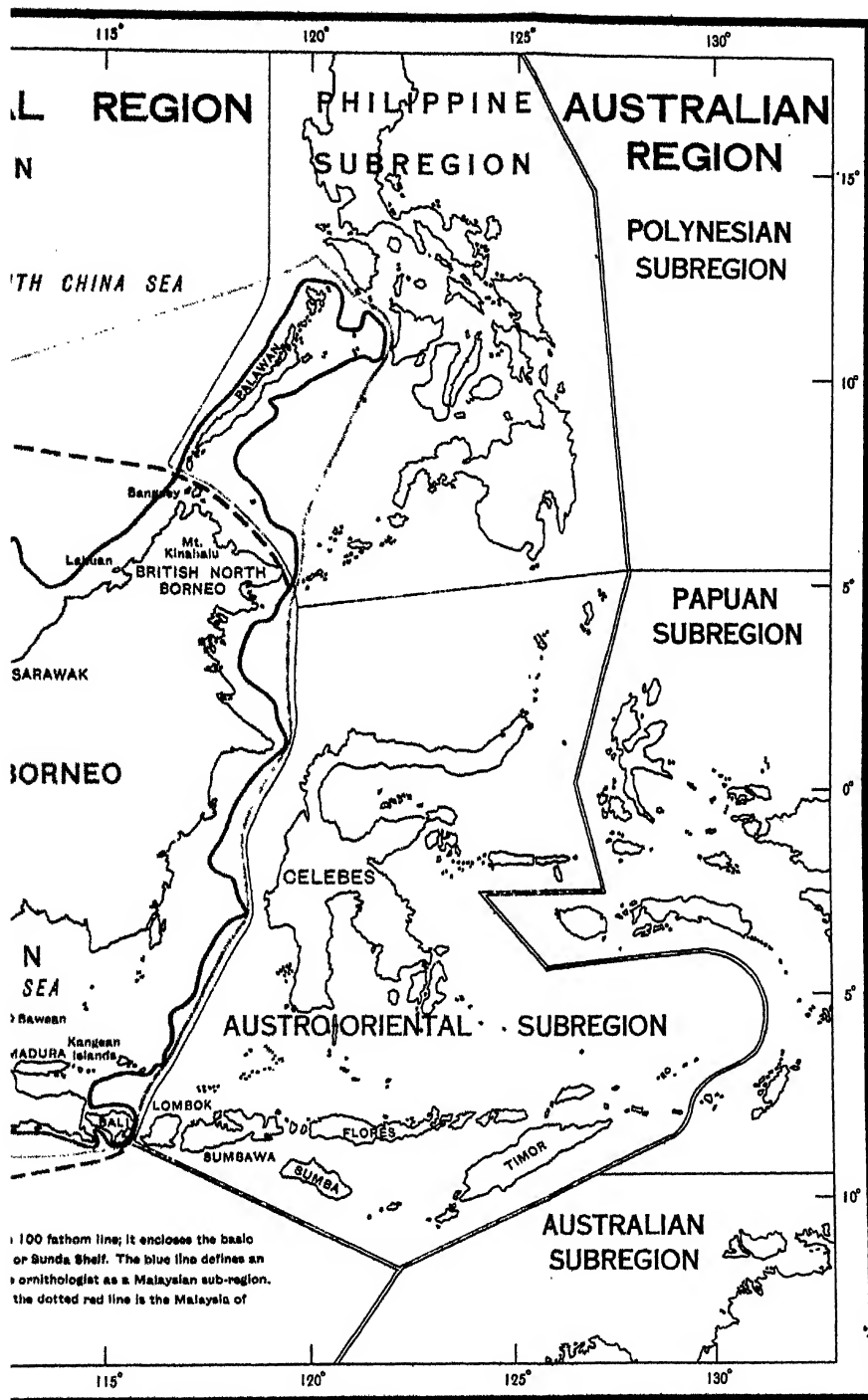
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# A HANDLIST OF MALAYSIAN BIRDS

A SYSTEMATIC LIST OF THE BIRDS OF THE  
MALAY PENINSULA, SUMATRA, BORNEO AND  
JAVA, INCLUDING THE ADJACENT SMALL  
ISLANDS

BY

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## INTRODUCTION.

### I. ZOO-GEOGRAPHICAL.

Although the term *Malaysia* was used by several zoologists in the nineteenth century only F. H. H. GUILLEMARD<sup>1</sup> seems to have employed it in a systematic sense, and he for the vast region extending from Sumatra to the Philippines and Moluccas, "the home of the true Malay race".

In 1918<sup>2</sup> C. BODEN KLOSS introduced and defined *Malaysia* in a formal manner as a sub-region of the Oriental Region.—

"Malaysian—pertaining to the Malay Peninsula, Sumatra, Borneo and Java. Malayan—pertaining to the Malay Peninsula, c.f. Sumatran, etc."

To the faunist this restricted *Malaysia* is more homogeneous than the larger sub-region, *Indo-Malaya* of Wallace, within which the Philippines<sup>3</sup> provide a sharp division against the Malay Peninsula and Sunda Islands.

The exact boundaries of a zoo-geographical zone must always be of an arbitrary nature and as it is obvious that such a zone is basically physiographical, rather than zoological, it is reasonable to try to fix its natural boundaries with regard to geographical facts "and when zoological appearances do not agree with geographical ones to regard the former as anomalous and endeavour to explain them".<sup>4</sup>

A basic, or physiographical *Malaysia* can soon be defined as all land standing on the Sunda Shelf below about Lat. 10° N. It is an area in which the sea-depths are less than one-hundred and usually less than forty fathoms: it leaps to the eye from a bathymetrical map.

As a zoo-geographical zone of any kind, however, the unmodified Sunda Shelf is not satisfactory and it needs modifications on zoological and geographical grounds, as well as on those of expediency.

For instance, the Malaysian avifauna extends on the *western* side of the Peninsula to about the latitude of Tavoy and the northern boundary of the sub-region ought to be extended thence. A similar

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<sup>1</sup> "Australasia", ii, 1894, p. 2.

<sup>2</sup> Journ. F.M.S. Mus. vii, 1918, p. 245.

<sup>3</sup> Excluding the Palawan group and Sibu, the Philippine Islands lie outside the 100 fathom line. Their fauna is poor compared with that of *Malaysia*. It lacks many Malaysian genera, but on the other hand includes many peculiar forms.

<sup>4</sup> C. Boden Kloss, "The Zoo-geographical Boundaries between Asia and Australia and some Oriental Sub-Regions", Bull. Raffles. Mus., 2, 1929, p. 1.



## INTRODUCTION.

fauna is also found on the Nicobar Islands;<sup>1</sup> and on the deep-water islands of the West Sumatran Chain. It has been thought expedient however, to exclude Tenasserim and the Nicobars. They are fully covered by regional publications dealing with British India and the Philippine Islands; their inclusion would be undesirable bibliographically; and furthermore, I have no collections or detailed knowledge of these areas. It can be noted that their omission is not important for they would only add to the list a few geographical races of species already included and, in the case of Tenasserim, one or two continental species.

On the other hand the Sunda Shelf includes the Palawan groups of islands and Sibutu, of which the avifauna though strongly Bornean has a conspicuous Philippine element. As these islands are also politically Philippine and fully covered by other publications they are excluded from the present work.

Lastly, purely on grounds of geographical proximity, the Cocos-Keeling Islands and Christmas Island in the Indian Ocean are included although the natural avifauna of the former is, in the main, *Oceanic*, and of the latter, *Austro-Oriental*.

### GENERAL FEATURES OF THE MALAYSIAN AVIFAUNA.

Excluding migratory species (the great majority from the north and a small minority from the south-east) many of which in their non-breeding season are found everywhere in the subregion from its coasts to the tops of its highest mountains, we find that the avifauna is more or less sharply divided at an altitude of about 3,000 feet although such broad division excludes a small, but not unimportant, group of sub-montane forms. The montane forms may, or may not be represented in the lowlands by allied sub-species: usually they are not.

On the mountains of Sumatra, Java and Borneo, Sondaic species occur together with a geographically more widely spread Himalayo-Sondaic element. A third element, more purely Continental (as distinct from Himalayo-Sondaic) reaches the Malayan and Sumatra mountains. An outstanding feature of the mountain ornis is an isolated and imperfectly identified element on the Bornean mountains: it is either Philippine or Austro-Oriental.<sup>2</sup>

In the lowlands the Himalayo-Sondaic association which is perhaps the palæomalaysian fauna, is lost in the Malaysian, or taking a rather broader view, the Indo-Malayan fauna. The Malaysian fauna is comparatively even, pointing to land connections geologically not

<sup>1</sup> The Andamans and Nicobars form a part of the mountain range that once extended from Cape Negrais in Lower Burma, a continuation of the Arakan Yoma, to Achin Head in Sumatra. The Andamans contain an impoverished Burmese fauna; that of the Nicobars approximates to the Sumatran type. *Malcolm Smith*, 1931.

<sup>2</sup> See Robinson and Kloss, *Journ. F.M.S. Mus.* viii, 1918, p. 97.

## INTRODUCTION.

remote although sub-species of varying degrees of distinctness are usually developed on each of the large land-masses. On the whole the avifauna of Java is the most distinct, indicating the early separation of that island. The birds of Sumatra and the Malay Peninsula are very similar although each area has some characteristic forms, but more specialization is apparent in Borneo.

Java shares with the Indochinese sub-region, but not with the remainder of Malaysia, a small group of species. This is usually explained by a theory which postulates a series of very complicated changes in land-surfaces for which, as in the case of some much simpler changes supposed by the zoo-geographer to have taken place in Malaysia, no geological evidence seems yet to have been brought forward.<sup>1</sup> In this connection, however, another hypothesis demands consideration in which land-levels and connections are only of secondary importance. There is a tendency for many migratory birds to establish themselves, and to become differentiated as resident races in the southern parts, in many cases, on the absolute southern periphery, of their range.

In the case of tropical breeding races of *Charadrius alexandrinus* and *Acrocephalus orientalis* the range of the resident form is still invaded, in season, by the migratory subspecies. Among the passeress we sometimes find resident races in Sumatra, Borneo, and Java, or some combination within this group, with migratory forms of the same species only ranging as far south as the Malay Peninsula. Here it is important to note that the present southern limit of the migrants varies with the species. These migrants (*eg. Oriolus, Dicrurus*) seem to dislike the water-crossing and there is a suggestion in all these species that a migratory habit, having established southern, differentiated groups, is dying out.

\* \* \* \*

In the systematic part of this book the Malaysian localities for the various species are arranged in four rows corresponding to four *Provinces*, Malayan, Sumatran, Javan and Bornean, and although this arrangement is largely natural, that is to say, in close agreement with both zoological and geographical facts it is also much tempered by a desire for a simple arrangement, and the four provinces are certainly not equal in value. Some of the small islands in particular require further study.

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<sup>1</sup> Visual evidence of minor coastal changes in Malaysia to-day suggests an interesting point in connection with the great changes in land-surface that must have taken place in order to produce the erratic distribution of many species. Separation of such land-masses as the Malay Peninsula and Sumatra was probably preceded by a long period during which the intervening ground was a barrier to some species and not to others. For instance, an extensive mangrove swamp in the south of the Straits of Malacca would prevent the passage of leopards but not of monkeys.

## INTRODUCTION.

### THE MALAYAN PROVINCE.<sup>1</sup>

*The Malay Peninsula; the small islands close to both its coasts; the Anamba and Tambelan Islands.*

The northern boundary of this province and consequently that of the sub-region is here regarded as Lat.  $10^{\circ}$  N. which is at the narrowest part of the Isthmus of Kra. Any further extension embraces territory within the political limits of British India, which is undesirable. The adopted dividing line, is, furthermore, not unnatural, for although on the west coast, along the region of the heavier rainfall and evergreen forests the Malayan avifauna extends through Tenasserim to about the latitude of Tavoy, on the lowlands of the east coast the Malayan element in the avifauna of Siam stops at the Pakchan Estuary<sup>2</sup>. A herpetologist would draw the southern line of his Indo-chinese fauna at about Lat.  $12^{\circ}$  N. for by lifting it from  $10^{\circ}$  N. about a dozen Malayan species of amphibians and reptiles are excluded<sup>3</sup>. A botanist suggests that the division should be at about the latitude of Singgora in Peninsular Siam and that an intermediate area more Indo-chinese than Malayan lies between Lat.  $7^{\circ}$  N. and  $10^{\circ}$  N.<sup>4</sup>. So little is known of the avifauna of the high mountain range between Tenasserim and Siam that any discussion as to its affinities would be unprofitable.

Several faunal boundaries, that is lines either coincident with the geographical limits of climatic changes, past, or present, or indicating former breaks in the continuity of the land surface, and impeding the spread of species, can be appreciated in the Malay Peninsula. There is one in the north, stretching from, roughly, Alor Star in Kedah on the west coast across to Singgora in Peninsular Siam on the east coast. It is noticeable that certain continental species extend further south on the west than on the east side of the Peninsula. There is also reason to suppose that the Peninsula south of Malacca was once isolated, but the biological evidence for this is clearer in mammals than in birds. The shallow, and narrow strait between the mainland and Singapore Island also acts as a minor faunal boundary.

The distinctness of the mountain faunas throughout Malaysia has already been mentioned above. It remains to be added that the true mountain fauna of the Peninsula fades out in Selangor, and

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<sup>1</sup> For the ornithological history, general outline, bibliography, etc., of this province, see Robinson, "The Birds of the Malay Peninsula", i, 1927, pp. xiii-xlvi (Peninsula); Chas. and Kloss, Journ. Mal. Br. Roy. Asiatic Soc., vi, pt. iii, 1928, pp. 43-48 (Anamba Islands); Oberholser, Proc. U. S. Nat. Mus., lv, 1919, p. 129 (Tambelan Islands).

<sup>2</sup> Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, v, 1921, p. 15.

<sup>3</sup> Malcolm A. Smith, Faun. Brit. Ind., Reptiles and Amphibia, i, 1931, p. 13.

<sup>4</sup> Ridley, Journ. Straits Br. Roy. Asiat. Soc. 59, 1911, p. 55.

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that the birds on the hills of Negri Sembilan, Malacca and Johore are usually submontane, or purely lowland species. Certain isolated peaks, even in the north of the Peninsula, are similarly characterized.

Other outstanding features of the peninsular avifauna are that certain continental species occur in the north, but not in the south; that some characteristically Malaysian species only occur in the south; that subspecific variation is north against south, and never west against east, which is interesting in view of the fact that the main physical feature of the Peninsula is a high range of mountains forming a backbone, running north and south; that there is a curious mid-peninsular gap in the range of certain woodpeckers; that, although, like the other land-masses in Malaysia, the Peninsula has developed many subspecies of its own, it contains no species that is not more widely spread, although the Malayan race may be well-differentiated; and that a cuckoo is found in the lowlands in the northern part of the Peninsula and, normally, only in the mountains further south.

In a few species there is a racial similarity between the resident birds of Ceylon, on the one hand, and those of the southern part of the Malay Peninsula, or in rarer cases, other, more remote parts of Malaysia, on the other. This convergence at the extremities of the Ceylon-Burma-Malayan arc is usually attributed to a striking similarity in the two habitats, although it must be noted that the majority of the resident birds in the two areas are very distinct and that the similarities in the avifaunas have, at times, been over-emphasized.

The coastal islands in the Malayan Province are of little special interest ornithologically. Pheasants, partridges, trogons, barbets, woodpeckers, broadbills and most species of babblers are usually absent, or rare, although the Langkawi Islands, off the west coast, are rather unusual in this respect, and therefore perhaps of recent separation. Subspecific differentiation on these small coastal islands is very rare although a Langkawi woodpecker, and a Tioman babbler (*Stachyris*) have been dignified with racial names. Outstanding features are the presence of the argus pheasant on Pangkor in the Straits of Malacca and, most interesting, of a wren-babbler (*Napothera*) otherwise only known from the mountains of the mainland, on Tioman. In the Tioman Archipelago, off the east coast, there are signs of subspecific divergence in the direction of the insular subspecies found in the Anamba Islands.

The resident, purely land-birds of the Anamba Islands in the South China Sea are merely representatives of common Malayan species: most of the species diverge in the direction of large average size, although the differences are very small: as noted above these differences may be adumbrated on the eastern coastal islands of the Malay Peninsula. The Tambelan Islands, between Singapore and Borneo and situated nearer to the latter, have an impoverished avifauna of no special interest, the few resident land-birds apparently belonging to the Anamba subspecies.

## INTRODUCTION.

### THE SUMATRAN PROVINCE.<sup>1</sup>

Sumatra and the shallow water islands off its east coast with which the islands of the Rhio, and Lingga Archipelagos are intimately related. The large islands of Banka and Billiton. The whole of the chain of islands off the west coast of Sumatra, the most important of which from north to south are, Simalur, the Banjak Islands, Nias, the Batu Islands, the Mentawi Islands (Siberut, Sipora, and the Pagi Islands), and Engano.

In spite of the much larger size of the island, the avifauna of Sumatra is less rich than that of the geographically more favourably situated Malay Peninsula, but the two faunas are very closely allied. That of Sumatra shows rather more specialization: it lacks some continental forms, but on the other hand there is present a Sunda Island element. Sumatra has a few peculiar species and numbers of well-differentiated subspecies, but as in the Malay Peninsula no genus, or highly peculiar form is found (*Gymnocrotaphus* and *Chalcocomus* are not here recognized), although the occurrence of *Rimator*, otherwise only known from the Himalayas, is remarkable. In the extreme south of the island there is a minor infiltration of Javanese forms.

Most subspecific differentiation within the island is north against south, but in a few cases races on the alluvial flats of the east coast are not the same as those occupying the older land in the west: In such cases the western race approximates to the Javan and the eastern to the Malayan subspecies.

An interesting item is that a broadbill (*Serilophus*) on the mountains of Acheen in the north of Sumatra is inseparable from the Malay States subspecies, geographically near and opposite, whereas the bird occupying the remainder of Sumatra, that is to the south, is more like that found in the north of the Malay Peninsula.

The faunal boundary which cleaves the island from north to south is the Barisan Range in which the only major depression, that in the neighbourhood of Padang Sidempuan, Lat.  $1^{\circ} 30' N.$ , forms a second barrier, a number of subspecies being confined to the island north of this place<sup>2</sup>. The low-lying islands on the east coast of Sumatra call for no special remark.

The Rhio and Lingga Archipelagos contain a poor avifauna composed of species common to the lowlands of central-east Sumatra and the south of the Malay Peninsula. The only degree of specialization seems to be an almost imperceptible divergence in the direction of races found in the Anamba and Natuna Islands. The avifaunas of

<sup>1</sup> The basic literature for this province is, or is summarized in, the following papers.—Sumatra: Rob. and Kloss, Journ. F.M.S. Mus., viii, pt. 2, 1918, p. 81; Kloss, Treubia, xiii, 1931, p. 299. Rhio Archipelago: Chasen, Bull. Raffles Mus., 5, 1931, p. 114. Lingga Archipelago: Dammerman, Treubia, viii, 1926, p. 325. Banka: Kloss, *l.c.s.* Billiton: Kloss, Treubia xiii, 1931, p. 293. West Sumatran Islands: Chas. and Kloss, Ibis, 1926, p. 306; Riley, Proc. U.S. Nat. Mus., lxxv, Art. 4, 1929, p. 1.

<sup>2</sup> See Kloss, Treubia, xiii, 1931, p. 301.

## INTRODUCTION.

Banka and Billiton are closely allied but by no means exactly alike and include a few not very distinctive, subspecies. Fresh material on which a critical examination of races in the modern way can be based is needed from Banka, but in the meantime it can be stated that the avifaunas are largely what could be expected from the map positions. Basically, Malay-Sumatran, there is a strong Bornean influence in Billiton which is less strongly marked in Banka.

The islands of the West Sumatra Chain<sup>1</sup> are of special interest for, collectively, they contain many well-marked bird-races, although taking the broad view followed in this handlist, no peculiar species<sup>2</sup>. In their fauna the islands vary much among themselves, and sometimes from Sumatra. There is no proof that this island chain ever formed one land-mass, or that all the islands were ever joined to Sumatra and the whole archipelago cannot be treated as an entity. There is reason for regarding the deeper water islands, that is those outside the one-hundred fathom line (Simalur, the Mentawi Islands, and Engano) as forming a zoo-geographical province, small in area, but equal in value to the four other provinces here adopted. Those within the forty-fathom line, the Batu and Banjak Islands, have a few subspecies of their own, but these are not so distinct as some on the deeper water islands of Simalur and the Mentawi group where most of the land birds are peculiar to the islands. Nias also has a number of subspecies of its own, but these are not so well marked as the most distinctive of the Mentawi races and quite a number of the Nias birds seem inseparable from Sumatran forms.

### THE BORNEAN PROVINCE.<sup>3</sup>

*Borneo and its coastal islands, the most important of which are Labuan, and Mantanani off the north-west coast; Maratua, off the east coast; and Pulau Laut off the south-east corner; the North Bornean Islands of Banguey, Balambangan, and Mallewallé; the North and South Natuna Islands; the Karimata Islands.*

The outstanding feature of the avifauna of Borneo is that although it has the general Malaysian facies it is more specialized than that of the Malayan and Sumatran, and if consideration is limited to the high-level fauna, even the Javan, Province.

The avifauna is by no means even, either in the mountains, or in the lowlands, and there are several obvious faunal boundaries in the island. The most striking, if not the most efficacious of these is

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<sup>1</sup> See Kloss, Proc. Zool. Soc., 1927, p. 797.

<sup>2</sup> The mammals include an isolated genus of Monkeys (*Simias*), a very distinct langur (*Pygathrix potensiani*), and other very peculiar forms.

<sup>3</sup> The basic literature from the systematic view-point can be obtained by reference to.—Moulton, Journ. Straits Br. Roy. Asiat. Soc. 67, 1914, p. 125 (Borneo); Chasen and Kloss, Bull. Raffles Mus., 4, 1930 (Borneo and the coastal islands); Oberholser, Bull. U.S. Nat. Mus. 159, 1932 (Natuna Islands); Chasen and Kloss, Treubia, xiv, 1933, p. 155 (Karimata Islands).

formed by the high mountain ranges of the interior, the general strike of which is in a north-east and south-west direction<sup>1</sup>. In some species, a race found east and south of these mountains is separable from that found, broadly speaking, in Sarawak. In many other cases races are distributed, broadly, as above but meet on the northern ("north-western") coast in the neighbourhood of Baram where there is a most important faunal boundary. Occasionally, a northern race thus cut off extends only a short distance down the east coast.

Within the major divisions given above there are also tendencies for areas of faunal distinction to separate in the lowlands of south, and of west Borneo. Certain rivers running west and east act as boundaries in the case of some mammals.

A slight Javan influence is apparent in the south of Borneo.

Turning to the mountains we find that, within the island, the great massif of Mt. Kinabalu in the north has far fewer peculiar forms than was formerly thought, for recent collecting has shewn that it shares most of its birds with other high peaks in North Sarawak. On the neighbouring Mt. Dulit there are signs of independent specialization although these are not so numerous as some recent authors would have us believe. It is interesting to note that a few montane species also occur on the isolated peaks of Poi and Penrissen in the north-west corner of the island: the form is usually that found on the northern mountains, but in one or two cases, distinctive subspecies have been developed.

The islands off the north-west coast of Borneo call for little comment beyond mention of an indigenous race of a small owl on Mantanani.

Mallewallé, Banguay and Balambangan, situated off the northern extremity of Borneo, outside the ten fathom line, but on a bank of less than twenty fathoms, have an avifauna almost entirely Bornean but with slight indications of internal differentiation, and there is also a small non-Bornean element, derived from the adjacent Palawan group of islands.

Maratua island, off the east coast, in the Celebes Sea, has also produced a few subspecies: on it there is, too, a Phillippine influence unknown on the mainland of Borneo or in the Banguay group.

In some respects the avifauna of the Karimata Islands, off the west coast, is closer to that of Sumatra than of Borneo: some of the species merely tend to large size as on other islands in the South China Sea, but within the group two birds seem to be represented by

<sup>1</sup> See a map and paper by E. Banks in Proc. Zool. Soc. 1933, p. 273: and the same author's detailed study of the distribution of *Sciurus przewostii* in Borneo, *op.cit.*, 1931, p. 1336, which also has a useful map.

## INTRODUCTION.

well-marked races, one of which, it is most interesting to note, is found on Panebangan Island which lies within the five fathom line and presumably within sight of the Bornean coast.

Many subspecies of birds have been described from the Natuna Islands. The special affinities of the birds of the southern group are Sarawacian, but in the northern islands the Bornean influence is less marked. Only on Great Natuna Island is there anything but an impoverished avifauna.

### THE JAVAN PROVINCE.<sup>1</sup>

*Java with Madura; Bali. Many small islands in the Java Sea, the most important of which are the Thousand Islands; the Watcher Islands off Batavia; the Karimon-Java Islands; Bawean; the Kangean Islands including Raas and Sapudi; various small islands between Bali and Borneo, the most important of which are Arends, Solombo, Kalambau, and Mata Siri. Christmas Island in the Indian Ocean. The Cocos-Keeling Islands.*

The avifauna of Java is poorer than that of the three other large land-masses in Malaysia, a circumstance perhaps due to the smaller area of the island. It is, however, the most specialized, or distinct, only a minority of its resident land-birds being inseparable from those occurring in the Malay Peninsula, Sumatra and Borneo, whereas the majority are well-marked peculiar subspecies, or widely divergent forms often called "representative species". The genera *Psaltria* and *Crocius* are peculiar to Java which also shares with the Himalayas, and not with the rest of Malaysia, *Serinus*. One of the most striking features of the Javan avifauna is that it shares a number of birds with the Indo-Chinese sub-region, these being either absent from the rest of Malaysia, or only represented in the north of the Malay Peninsula. This fact has already received notice in this introduction.

In the extreme west of the island is a minor Sumatran infiltration, perhaps of recent date. A marked penetration of Austro-Oriental (Lesser Sunda Island) forms is especially noticeable in the east of the island.

There seems to be a slight reduction in the number of species correlated with longitude, fewer species being represented in the west. Subspecific variation is mainly longitudinal and if a species is divided into western and eastern races, the latter may be found on Bali. In a few cases montane species are represented by different forms on several peaks.

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Basic literature for the Javan Province.—"Birds of the Island of Java", Kuroda, 1933 (Java, Thousand Islands &c.); Stresemann, Nov. Zool., xx, 1913, p. 325 and Rensch, Mitt. Zool. Mus., xvi, 1930, p. 530 (Bali); Chasen and Kloss, Treubia xiv, 1933, p. 165 (Karimon-Java); Oberholser, Proc. U.S. Nat. Mus., lii, 1917, p. 183 (Bawean); Hartert, Nov. Zool., ix, 1902, p. 419 (Kangean Islands); Oberholser, Proc. U.S. Nat. Mus., liv, 1917, p. 177 (Solombo, Mata Siri &c.); Chasen, Bull. Raffles Mus., 8, 1933, p. 55 (Christmas Island); "Corals and Atolls", Wood-Jones, 1912 (Cocos-Keeling Islands).



## INTRODUCTION.

Little is known of the avifauna of Madura but it seems not to be specialized in any way. The avifauna of Bali which is rich for the size of the island and includes some montane forms is closely allied to that of East Java and much more remotely to the very distinct Austro-Oriental ornithos on the neighbouring island of Lombok. The two islands are, of course, separated by the narrow, but deep strip of water, forming part of the well-known "Wallace's Line", which can be regarded as the southern end of the zoo-geographical boundary between the Malaysian and Austro-Oriental sub-regions. Most, but not all, so-called Balinese forms are also found in East Java. One of the exceptions is a sturnine genus *Leucopsar*, peculiar to Bali. The Austro-Oriental influence is shown by the presence of *Trichoglossus*, *Lichmera* and *Ptilinopus cinctus* which reach their western limit in Bali.

A few subspecies have been described from various small islands in the Java Sea on which both Bornean and Javan species are found, but these islands are most remarkable for providing stepping stones for an infiltration to the west of Austro-Oriental forms which even reaches the Thousand Islands off the west point of Java and Billiton.

The birds of the Karimon-Java Islands show a close affinity to those of Java. A species represented in South Borneo and Java by different subspecies, if it occurs in the Karimon-Java Islands, is either represented there by the Java race, or by a race which is, according to the present state of our knowledge confined to the islands, or else found in the same, or a very slightly altered state, on other islands in the Java Sea.

Bawean has a few indigenous subspecies: its avifauna is mixed Javan and Bornean, but the former element is dominant.

The Kangean Islands with some well-marked endemic subspecies are also mostly Javan in their avifauna, but there is also a strong Austro-Oriental element.

The fauna of Christmas Island is highly specialized. The avifauna is Austro-Oriental in its present affinities which is surprising when the nearness of Java is considered. In more detail we find that of the Austro-Oriental subspecies the Christmas Island races are most like those found in the chain of islands stretching from Sumbawa to Timor Laut, and, furthermore, when, within this limited area, subspecific distinctions can be recognized in a species, the Christmas Island form is more like that found in Sumba, Savu, Timor &c., than that inhabiting Sumbawa and Flores.

The birds of Cocos-Keeling are of no great interest. They include oceanic forms, introduced species, and stragglers from Java and elsewhere. There is no indigenous, peculiar, land-bird except *Rallus philippensis andrewsi* whose sub-specific status I have been unable to check.

In the future I hope to attempt a more detailed analysis of the Malaysian avifauna.

## II. ARRANGEMENT, ETC.

*The Order* is that of Sharpe's "Handlist" adapted in a few places in accordance with the views of some workers on various groups such as those of Dr. P. R. Lowe based on his investigations on the waders, although in this case the result is not very obvious as the present handlist deals only with formations below the rank of Family. Some other, but minor, adjustments have also been made, when I have felt convinced that they could be justified. *Muscitrea*, for instance, is transferred to the *Laniidæ* and merged in *Pachycephala*. A number of other changes recently proposed have not been accepted as they seem based on very superficial grounds and, to my mind, represent change rather than progress. Most ornithologists are aware that some genera and species are probably misplaced in the "Handlist", especially among the *Pycnonotidæ*, *Timaliidæ* and *Turdidæ* but until the anatomy of these anomalous forms has been critically and comparatively examined I can appreciate no reason for disturbing an established order. Cases in point are *Chalcoparia*, *Ægithina* and *Irena*.

*The Synonymy* is purely regional. I have tried to make it as complete as possible but the library in Singapore is incomplete and I have had to get many references and type-localities from Europe. The majority of the references have been checked in the original publication, but some from a secondary source, in which latter case an attempt has been made to avoid the works of mere copyists. I expect, however, that this synonymy will prove to be a weak point in my work. A number of *nomina nuda* have been excluded as they seem never to have crept into literature.

*Distribution*.—The localities are arranged in four rows corresponding with the Malayan, Sumatran, Bornean and Javan *Provinces* as defined above. Continental distribution is indicated in three ways. *Peninsular Siam* implies the northern part of the Malay Peninsula down to about Lat. 6° N. *Malay States* means roughly, the southern half of the Peninsula: it is the area of British influence and includes the Unfederated Malay States, the Federated Malay States and the Straits Settlements of Penang, Malacca and Singapore. *Malay Peninsula* includes both the above divisions.

*Literature*.—The references given in the footnotes are, naturally, not complete but basic, or suggestive, and can be added to those given by Peters. Although at times they may seem, at first glance, relatively unimportant, it will be found, usually, that they contain, or lead to, the essential literature on the group.

*The Asterisk* indicates that topotypes of the race have not been examined. In the great majority of cases these races have therefore been accepted. They are mostly based on islands off the west coast of Sumatra (excluding the Mentawi Islands) and Banka.

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*Popular Names.*—If any merit accrues from the introduction of these it devolves on Mr. N. B. KINNEAR who persuaded me, against my original inclinations, to include them here. I have met him half-way and found, or invented, English names for the species: for the subspecies, names can always be made by prefixing the geographical adjective although in a few cases names have been found for subspecies when these are very distinctive in appearance as in the case of Christmas Island forms. In general, the principle of simplicity has been followed. Some names, such as "Vieillots' Fireback" for *Lophura rufa* seem to have been established for many years. I have also tried to use names already published by ROBINSON and STUART BAKER but sometimes this has not been a reasonable course to follow. "Rosy Minivet" for *Pericrocotus roseus* is suitable for Indian representatives of the species but the Malaysian forms are grey, not pink. It has also seemed to me ungracious to drop a name originally applied as a mark of honour, or respect, and *Oriolus hosei* therefore appears here as "Hose's Oriole".

## III. NOMENCLATORIAL.

In the following pages an attempt is made to abide by the "International Rules of Nomenclature". One of the chief unsettled difficulties is the vexed question of how far one should preserve the original spelling of names when these are obviously, from the purist's point of view, incorrect. The excellent recommendation of the rules that the original orthography should be faithfully preserved, except in the case of printer's errors, *lapsus calami*, and errors of transcription, has, unfortunately, been negated by the broad interpretation given to these exceptions in the "opinions" following the rules. The modern practice of regarding a nomen nudum as unusable if it was, subsequent to its original publication placed as a synonym by a revisor, seems unreasonable, and it is surely better to establish these floating names under the name of the author who first associated them with a valid description.

In this handlist I have continued to use several old established names although some recent authors have regarded these as indeterminate. I suggest that these authors should be required to indicate in what way the names are inapplicable rather than the reverse. A large percentage of the older descriptions are so generalized that they are, *prima facie*, indeterminate. In the case of *Platsymurus* recently rejected, I contend that the figures on which the name is based are not only recognizable, but excellent likenesses.

An outstanding difference among systematists concerns the status of new names, introduced inadvertently, as a result of a mistaken identification. *Alcippe cinerea* Blyth, and *Cyornis unicolor infuscata* Hartert, are both new combinations, with good descriptions, applied in this manner, but the first in the mistaken notion that it was *Malacopteron cinereus* Eyton, and the second, *Muscicapa infuscata* Blyth.

## IV. SYSTEMATIC.

There can be few more difficult areas for a systematist to deal with than Malaysia. With its four large land-masses, its high mountains, compact archipelagos, abundant coastal islands, and numerous oceanic islands, the division of species widely spread in the sub-region often calls for a nicety of judgment in which the personal element must, in the present state of ornithological practice, play a large part. Throughout the subregion, as elsewhere, the smaller islands show a relatively greater tendency to produce subspecies than do the large land masses. On the former the "biological discipline" seems less severe and variation is perpetuated: on the latter it is absorbed. In many cases the subspecies are well-defined the differences being qualitative rather than quantitative in character and in some instances the Javan and Bornean representatives of species also occurring on the Continent are so well marked that only those workers, who like myself take a very broad view of a "species", would attempt to link them in a trinominal nomenclature.

The Anamba Islands in the South China Sea present the reverse state of affairs. They are inhabited by continental, lowland species, but the insular forms usually diverge in the direction of slightly larger average size. On paper the distinctions seem insignificant, in birds the size of a bulbul sometimes only amounting to two or three millimetres on the mean, but to ignore such distinctions based on good series is to ignore one of the most important phenomena presented by the island avifauna.

An even more delicate development of this situation is presented by some species in which a tendency to modification in the same direction is expressed, whenever a group is isolated, over a large geographic range. *Aplonis* is a case in point. On all the small islands of the South China Sea and its ramifications the glossy starling varies in the direction of large size and a more robust bill. The first name applied to these insular birds was based on specimens from the Anamba Islands, but as the same subspecific characters are found in varying degrees on all small islands south to the coast of Sarawak and then along the east coast of Borneo the result is a race ill-defined in range and characters. An interesting phenomenon bearing on the origin of subspecies may here be noticed. In Malaysia, where a section of a species is segregated it not infrequently throws up an individual in which a subspecies seems to be adumbrated. Thus among sunbirds and flowerpeckers living on coastal islands occasional individuals have relatively large bills, a character on which subspecies in these groups are often based; certain species in the Tioman and Rhio Archipelagos produce large individuals which are approaching, or are inseparable from, large races of the species found in the remoter Anamba and Natuna Islands; and the large fruit-pigeon *Ducula aenea*, of which, in spite of large series, I cannot separate a Bornean subspecies, does occasionally show a very blue tail in that island.

## INTRODUCTION.

In these species it would seem that isolation and the correlated unchecked variation is a more important factor in the evolution of new forms than adaptation to a peculiar environment.

In this list a very broad view of a "species" is taken and there is an extensive linking of geographical races and representatives in the German fashion as I feel that in this way the specific names can usefully be given a secondary function to express relationship. Many of the combinations adopted are novel. For instance, the monotypic Bornean genus *Allocotops* is reduced to the rank of a subspecies of *Melanocichla lugubris* and the rather distinct *Rhipidura phoenicura* of Java becomes *R. perlata phoenicura*. In the opposite direction species are split down to the lowest possible limit and many of the subspecies accepted are based on very fine distinctions. In the matter of genera I have been very conservative and have "lumped" extensively, for I cannot yet appreciate, among birds, any natural generic criterion and have therefore employed the genus merely as a chapter-heading. Perhaps the views of the advocates of the small genus, even though the implication is the creation of a large number of monotypic genera, are more logical for, on a superficial survey, there does seem a point below which some groups of species seem indivisible e.g. the more typical *Zosterops*, but consideration of this seems best left to workers with cosmopolitan collections at their disposal.

The day is probably not far distant when the systematist will extend the present system of trinominal nomenclature to embrace, for want of a better term, antediluvian representatives, or in other words to recognize among existing species, subspecies in time as well as in space. That such is the relationship between numerous groups of closely allied forms now found distributed over the same territory seems very probable. *Anthreptes malacensis* and *A. rhodolaema*; and *Aegithina tiphia* and *A. viridissima* are two such pairs. In each, the first named species is commoner than the second, more wide spread in Malaysia, has developed more subspecies, and is more adaptable in the matter of terrain being found commonly in cultivated areas. It shows, in fact, all the manifestations one would expect an older stock to show in relation to a later wave of immigrants. Physiological intolerance must here play a part. A system of nomenclature exemplified by *Anthreptes malacensis* [*rhodolaema*] now suggests itself, but at this point I hasten to add that the system has not been adopted in this list.

\* \* \* \* \*

If in the following pages it is found that some names and views do not agree with those in papers previously published it must be remembered that opinions often alter as new material accumulates. Our former method of work was to write reports on general collections from specified localities. Although such papers are, primarily, of interest to the zoo-geographer and the faunist the method has its disadvantage from the systematist's point of view for there is always

## INTRODUCTION.

a danger that the identifications in such a paper are less precise than in "revisions" when the whole of the available material of one species, or group, is reviewed at one time. Having dealt with a common sunbird in a dozen papers in several years there is a chance of hasty, or perfunctory examination when the species again turns up in a small collection from an island, the avifauna of which it is desirable to list.

I have, therefore, on the present occasion, surveyed anew all the material in Singapore; studied in detail much of the relevant material in the museums of London, Tring, Buitenzorg and Kuching; and examined a number of the more critical forms in hasty visits to the museums of Amsterdam, Leyden and Berlin. In the Raffles Museum, Singapore, there are now housed collections which, taken together, are probably the most representative of Malaysia in existence. Unfortunately, I have not been able to visit the United States National Museum wherein are extensive Malaysian collections.

In a number of cases, subspecies based on alleged colour distinctions have not been accepted. Some of this difference of opinion depends no doubt on the observer's eye; some of it on lack of agreement anent the criterion of separation for, it seems clear that some authors separate races when the *extremes of series differ*, but I suspect that most of it is due to lack of understanding of post-mortem changes in colour. Very little seems to be known of this subject, but I am convinced that skins kept in museums in the tropics even in the shelter of protected cabinets usually fade sooner than do those in museums in England.

The rapidly fugitive colours of *Cissa* and the more slowly fading pigments of *Harpactes* are well-known, but almost as astonishing in their colour change are skins of some of the more brightly coloured timaliids such as *Mesia* and *Siva*. Less well-known are the receding reds of *Aethopyga* and the rapidity with which some small, dull-coloured timaliids and pycnonotids change colour after death. In these the olive element in the plumage soon disappears, the greyness fades away, the browns come up, deepen in colour, ("burn") and then a general "snuffiness" pervades the skin. In a recent test case I found that some skins of *Stachyris maculatus* lost their freshness in a few months and altered considerably in three years. On the other hand, in 1930, I found that some skins of various species well-known to fade, collected by Whitehead in 1888, were practically identical in tone with others taken personally in 1929. Little seems to be known about even the superficial causes of these post-mortem changes. Ignoring such drastic treatment as total immersion in spirit prior to skinning, I have noted that in some cases, tow and grass used as stuffing material have altered the colour of mammal skins. Drying over a wood fire will also produce queer results at times and relaxing and remaking not infrequently darkens a skin. Perhaps some post-mortem changes are due to physiological causes such as the age of the feather when the bird is collected.

## INTRODUCTION.

### V. ACKNOWLEDGEMENTS.

I cannot conclude this introduction without acknowledging the great help I have received, over a period of years, from numerous ornithologists. First, and foremost, is Mr. NORMAN KINNEAR of the British Museum of Natural History, whose patience seems inexhaustible. Over a long period he has answered, promptly, many requests for the checking of references and type localities.

In Europe my best thanks are also due to Lord ROTHSCHILD who allowed me to work at Tring; Dr. ERWIN STRESEMANN of Berlin, who is always ready to examine critically a palæarctic migrant for me; and Mr. G. C. H. JUNGE who has answered numerous queries about specimens in the Leyden Museum. In the East, Mr. E. BANKS, the Curator of the Sarawak Museum, has always placed his collections at my disposal in a most generous manner and by doing so has added materially to our knowledge of the Bornean fauna. Time and time again, without reserve, he has sent to me the results of his numerous collecting expeditions in Borneo. Dr. K. W. DAMMERMAN of the Zoological Museum at Buitenzorg, Java, has also kindly placed valuable collections at my disposal. Messrs. E. MAYR, C. B. TICEHURST and J. H. RILEY are other valued correspondents.

Lastly, I am pleased to acknowledge the heavy debt I owe to my former chief, Mr. C. BODEN KLOSS. We originally planned to produce this list in collaboration, and in its early days used to discuss difficulties as they arose.

F. N. CHASEN.

SINGAPORE, *December*, 1935.

# A HANDLIST OF MALAYSIAN BIRDS.

## Family MEGAPODIIDÆ.

Genus **MEGAPODIUS** Gaimard.<sup>1</sup>

**Megapodius reinwardt** Dumont.

Megapode.

**Megapodius reinwardt reinwardt** Dumont.

*Megapodius Reinwardt* Dumont, Dict. Sci. Nat. (Levrault), xix, 1823, p. 416: Amboyna error=Lombok.

*Distr.*—Kangean Islands (Kangean and Sepanjang); Java Sea Islands of Solombo Besar, Arends and (?) Mata Siri.

**Megapodius reinwardt cumingii** Dillwyn.

*Megapodius Cumingii* Dillwyn, Proc. Zool. Soc. 1851, p. 118, pl. 39: Labuan.

*Megapodius lowii* Sharpe, Proc. Zool. Soc. 1875, p. 111: Labuan.

\**Megapodius cumingii tolutilis* Bangs and Peters, Occ. Pap. Boston Soc. Nat. Hist. v, 1927, p. 235: Maratua Island, East Borneo.

*Distr.*—Bornean Islands of Labuan and its islets; Tiga, Mangalum, Mantanani, Balambangan, Banguay, Mallewallé and ? Maratua.

## Family PHASIANIDÆ.

Genus **RHIZOTHERA** Gray.

**Rhizothera longirostris** (Temm.).

Long-billed Partridge.

**Rhizothera longirostris longirostris** (Temm.).

*Perdix longirostris* Temminck, Cat. Syst. Orn. 1807, p. 158: North Sumatra.

*Tetrao curvirostris* Raffles, Trans. Linn. Soc. xiii, 1822, p. 323: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo (lowlands).

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<sup>1</sup> There is justification for a wider linking of the forms of *Megapodius* than has hitherto been practised. We do not believe in the occurrence (unaided) of the genus on any of the large land masses in Malaysia, but megapodes will undoubtedly be discovered on other small islands in the sub-region.



**Rhizothera longirostris dulitensis** O.-Grant.

*Rhizothera dulitensis* Ogilvie-Grant, Bull. Brit. Orn. Cl. iv, 1895,  
p. 27: Mount Dulit, North Sarawak.

*Distr.*—Borneo (Mt. Dulit).

Genus **ARBOROPHILA** Hodgson.<sup>1</sup>

**Arborophila brunneopectus** (Blyth). Brown-breasted Tree-Partridge.

**[Arborophila brunneopectus brunneopectus** (Blyth).]

*Arboricola brunneopectus* "Tickell," Blyth, Journ. Asiat. Soc.  
Bengal, xxiv, 1855, p. 276: Tenasserim.

*Distr.*—Extra-limital.]

**Arborophila brunneopectus campbelli** (Rob.).

*Arboricola campbelli* Robinson, Bull. Brit. Orn. Cl. xv, 1904, p. 28:  
Telom, Perak-Pahang boundary, Malay States.

*Distr.*—Malay States.

**Arborophila brunneopectus rolli** (Rothsch.).

*Arboricola rolli* Rothschild, Bull. Brit. Orn. Cl. xxv, 1909, p. 7:  
Battak Mts., North-east Sumatra.

*Distr.*—Sumatra (North).

**Arborophila brunneopectus sumatrana** O.-Grant.

*Arborophila sumatrana* Ogilvie-Grant, Ann. Mag. Nat. Hist. (6) viii,  
1891, p. 297: Kaba Mt., South-west Sumatra.

*Distr.*—Sumatra (Central and West).

**Arborophila brunneopectus javanica** (Gmel.).

*Tetrao javanica* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 761: West  
Java.

*Distr.*—Java (West).

**Arborophila brunneopectus bartelsi** Siebers.

*Arborophila javanica bartelsi* Siebers, Treubia, xi, 1929, p. 149:  
Mt. Cherimai, Central Java.

*Distr.*—Java (Central).

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<sup>1</sup> The affinities of some of the *Arborophila* forms of South-eastern Asia are difficult to discover as the genus shows an unusually strong tendency to produce well-marked geographical representatives. Robinson (Birds Mal. Pen. ii, 1928, p. 8) has stated that the nearest ally of *campbelli* is *atrocularis*, but we think that the former is the Malayan representative of *brunneopectus*. *A. rolli*, *javanica*, and *hyperythra* are other Sunda Island forms of the same "species": *Javanica* although very distinct in colour is linked to *brunneopectus* by some richly coloured examples of *campbelli*. The presence of two very distinct sub-species in Java is awkward, but *orientalis* is only found in the east of the island. *A. rubrirostris* seems nearest to *A. davidi* of Cochin China.

**Arborophila brunneopectus orientalis** (Horsf.).

*Perdix orientalis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 184 :  
Blambangan, East Java.

*Perdix personata* Horsf., Zool. Res. part viii, 1824, pl. and letter press :  
East Java.

*Distr.*—Java (East).

**Arborophila brunneopectus hyperythra** (Sharpe).

*Bambusicola hyperythra* Sharpe, Ibis, 1879, p. 266 : Lawas Mts.,  
North-west Borneo.

*Distr.*—Borneo.

**Arborophila brunneopectus erythrophrys** (Sharpe).<sup>1</sup>

*Bambusicola erythrophrys* Sharpe, Ibis, 1890, p. 139, pl. 4 : Mount  
Kinabalu, North Borneo.

*Distr.*—Borneo (North).

**Arborophila rubrirostris** (Salvad.). Red-billed Hill-Partridge.

*Peloperdix rubrirostris* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879,  
p. 251 : Mt. Singalan, Padang, West-central Sumatra.

*Distr.*—Sumatra.

**Arborophila charltonii** (Eyton). Chestnut-breasted Tree-Partridge.**Arborophila charltonii charltonii** (Eyton).<sup>2</sup>

*Perdix Charltonii* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 230 :  
Territory of Malacca.

*Distr.*—Malay Peninsula.  
Sumatra.

**Arborophila charltoni graydoni** (Sharpe and Chubb).

*Arboricola graydoni* Sharpe and Chubb, Ornith. xiii, 1906, p. 133 :  
Lamag, North Borneo.

*Distr.*—Borneo (North).

Genus **CALOPERDIX** Blyth.**Caloperdix oculea** (Temm.). Ferruginous Wood-Partridge.**Caloperdix oculea oculea** (Temm.).

*Perdix oculea* Temminck, Fig. et Gall. iii, 1815, pp. 408, 732 :  
India, error=central parts of Malay Peninsula (*Rob and Kloss*,  
1921).

*Distr.*—Malay Peninsula.

<sup>1</sup> *A. erythrophrys* and *A. hyperythra* are distinct forms.

<sup>2</sup> The presence of this bird in Sumatra needs confirmation.

**Caloperdix ocella ocellata** (Raffles).

*Tetrao ocellatus* Raffles, Tran. Linn. Soc. xiii, 1822, p. 322 :  
Bencoolen, West Sumatra.

*Caloperdix sumatrana* Ogilvie-Grant, Bull. Brit. Orn. Cl. ii, 1892,  
p. 5 : Padang, West Sumatra.

*Distr.*—Sumatra.

**Caloperdix ocella borneensis** O.-Grant.

*Caloperdix borneensis* Ogilvie-Grant, Bull. Brit. Orn. Cl. ii, 1892,  
p. 5 : Mt. Dulit, North Sarawak.

*Distr.*—Borneo.

Genus **ROLLULUS** Bonnaterræ.

**Rollulus roulroul** (Scop.).

Crested Wood-Quail.

*Phasianus roulroul* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786,  
p. 93 : Malacca.

*Columba cristata* Gmel., Syst. Nat. i, pt. 2, 1788, p. 774 : Malacca.

*Phasianus cristatus* Sparrm., Mus. Carls., fasc 3, 1788, pl. 64 : Celebes  
error=Borneo.

*Tetrao viridis* Gmel., Syst. Nat. i, pt. 2, 1789, p. 761 : Sumatra (*Raffles*,  
1822).

*Tetrao porphyrio* Shaw and Nodd., Nat. Misc. iii, 1791, pl. 84 : Malacca.

*Perdix coronata* Lath., Suppl. Index Orn. 1801, p. 62. Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Banka and Billiton.

Borneo.

Genus **MELANOPERDIX** Jerdon.

**Melanoperdix nigra** (Vig.).

Black Wood-Partridge.

**Melanoperdix nigra nigra** (Vig.).

*Cryptonyx niger* Vigors, Zool. Journ. iv, 1829, p. 349 : Bencoolen,  
West Sumatra (*Rob. and Kloss* 1923).

*Cryptonyx ferrugineus* Vig., Zool. Journ. iv, 1829, p. 349 : Bencoolen  
(female descr.).

*Cryptonyx dussumieri* Less., Bélang. Voy. Ind. 1834, p. 275, Oiseaux,  
pl. 7 : Malacca.

*Perdix aruginosus* Eyton, Proc. Zool. Soc. 1839, p. 106 : Malacca (female  
descr.).

*Distr.*—Malay States.

Sumatra.

**Melanoperdix nigra borneensis** Rothschild.

*Melanoperdix nigra borneensis* Rothschild, Bull. Brit. Orn.  
Cl. xxxviii, 1917, p. 3; Balingean, Sarawak.

*Distr.*—Borneo.

Genus **HÆMATORTYX** Sharpe.

**Hæmatortyx sanguiniceps** Sharpe. Crimson-headed Wood-Partridge.

*Hæmatortyx sanguiniceps* Sharpe, Ibis, 1879, p. 266: Lawas Mts., North-west Borneo.

*Distr.*—Borneo.

Genus **EXCALFACTORIA** Bonaparte.

**Excalfactoria chinensis** (Linn.).<sup>1</sup> Blue-breasted Button-Quail.

**Excalfactoria chinensis chinensis** (Linn.).

*Tetrao chinensis* Linn., Syst. Nat. 12th. ed. i, 1766, p. 277: China.

*Distr.*—Malay Peninsula.

Sumatra (? North and East).

**Excalfactoria chinensis palmeri** Riley.

*Excalfactoria chinensis palmeri* Riley, Proc. Biol. Soc. Wash. xxxii, 1919, p. 93: Daru, Java.

*Distr.*—Sumatra (?South and West); Billiton; ? Banka.

Java; North Watcher Island, Thousand Islands and Java Sea.

**Excalfactoria chinensis lineata** (Scop.).

*Oriolus lineatus* Scopoli, Del. Flor. et Faun. Insubr. pt. 2, 1786, p. 87: Luzon, Philippine Islands.

*Excalfactoria chinensis caerulescens* Hachisuka, Bull. Br\*. Orn. Cl. xlvii, 1926, p. 69: Sarawak, Borneo.

*Distr.*—Borneo.

Genus **HOUPPIFER** Guérin-Ménéville.

**Houppifer erythrophthalmus** (Raffles). Fire-back Pheasant.

**Houppifer erythrophthalmus erythrophthalmus** (Raffles).

*Phasianus erythrophthalmus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 321: Bencoolen, West Sumatra.

*Houppifer diardii* Guér.-Mén., Icon. Règ. Anim., Ois. 1828-38, p. 26, pl. 43, fig. 2: Java error=Sumatra.

*Phasianus purpureus* Gray, Ill. Ind. Zool. i, 1830-32, pl. 42: Penang.

*Distr.*—Malay States.

Sumatra.

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<sup>1</sup> This division of the Malaysian *Excalfactoria* cannot be regarded as final and large series, especially of females, from Sumatra, South Borneo and Java are needed to define the racial boundaries: it is doubtful if such series exist. The North Bornean and Sarawak bird is not separable from topo-typical *lineata*, but the Javan race, *palmeri*, seems distinct. Birds from the south of Borneo are, perhaps, *palmeri*. There are, at least, two races in Sumatra, and in some respects birds from the north of the island are approaching *trinkutensis*, described from the Nicobars. The racial distinctions seen in the Sunda Islands are remarkable as it seems quite impossible to split continental *chinensis* in spite of its wide range, although birds from Hainan look rather different in series.

**Houppifer erythrophthalmus pyronotus** (Gray).

*Alectrophasis pyronotus* G. R. Gray, List of Birds, 1841, p. 78 :  
Borneo.

*Alectrophasis personatus* Temm. MS., Bp., Compt. Rend. xlii, 1856,  
p. 879 : Borneo.

*Distr.*—Borneo.

**Houppifer inornatus** (Salvad.).

Salvadori's Pheasant.

*Acomus inornatus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 250 :  
Padang, West Sumatra.

*Distr.*—Sumatra.

Genus **LOPHURA** Fleming.**Lophura ignita** Shaw and Nodd.

Bornean Fire-back Pheasant.

**Lophura ignita ignita** (Shaw and Nodd.).

*Phasianus ignitus* Shaw and Nodder, Nat. Misc. ix, text to pl. 321,  
1797 : Borneo.

*Gallus macartneyi* Temm., Fig. et Gall. ii, 1813, p. 273 : Sumatra error  
= Borneo.

*Euplocamus nobilis* Sclat., Proc. Zool. Soc. 1863, p. 118, pl. xvi : Borneo.

*Distr.*—Banka.

Borneo.

**Lophura ignita sumatrana** (Dubois).<sup>1</sup>

*Euplocamus sumatranus* Dubois, Bull. Ac. Belg. ii, 47, 1879, p. 825 :  
Palembang, Sumatra (male).

\*? *Lophura sumatrana delacouri* Ghigi, Oiseau vii, 1926, p. 51, col. pl. :  
Sumatra.

*Distr.*—Sumatra. (South).

**Lophura rufa** (Raffles).

Vieillots' Fire-back Pheasant.

*Phasianus rufus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 321 :  
Bencoolen, Sumatra (female).

*Phasianus ignitus* Raffles (nec. Shaw and Nodd.), Trans. Linn. Soc.  
xiii, 1822, p. 320 : Sumatra (male).

*Phasianus castaneus* Gray in Griff. ed. Cuv. iii, 1829, p. 28 : Penang  
(female).<sup>2</sup>

*Euplocamus vieilloti* Gray, List Gen. Birds, 1841, p. 77 : Malacca.

\*? *Lophura sumatrana albipennis* Ghigi, Oiseau, vii, 1926, p. 51 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra (North and Central).

<sup>1</sup> This remains an unsatisfactory race and most of our information is based on menagerie birds, the provenance of which is always doubtful. Considering the evidence as a whole it does seem likely that there is, in South Sumatra, a pheasant in which the female is very bright rufous, and the male more like *L. ignita* than *L. rufa*. But see Kloss, Treubia, xiii, 1931, p. 304.

<sup>2</sup> From the locality, probably an imported bird.

Genus **LOBIOPHYSIS** Sharpe.**Lobiophasis bulweri** Sharpe. Bulwer's Pheasant.*Lobiophasis Bulweri* Sharpe, Ann. Mag. Nat. Hist. (4) xiv, 1874, p. 373 : Lawas Mts., Sarawak, Borneo.*Lobiophasis castaneicaudatus* Sharpe, Proc. Zool. Soc. 1877, p. 94 : Lawas River, Sarawak, Borneo.*Distr.*—Borneo.Genus **GALLUS** Brisson.**Gallus gallus** (Linn.). Red Jungle-Fowl.**Gallus gallus gallus** (Linn.).*Phasianus gallus* Linn., Syst. Nat. 10th ed. 1758, p. 158 : Pulau Condore, off the mouth of the Mekong, Cochin China.*Coturnix spadicea* Bonnaterre, Tabl. Encycl. Méth. i, 1791, p. 218 : Malacca (*Kloss, 1931*).*Distr.*—Malay Peninsula.  
Sumatra (North only).**Gallus gallus bankiva** Temm.*Gallus Bankiva* Temminck, Fig. et Gall. ii, 1813, p. 87 : Java.*Gallus gallus robinsoni* Rothschild, Nov. Zool. xxxiii, 1926, p. 206 : Sumatra.*Distr.*—Sumatra (South).  
Java; Bali.**Gallus varius** (Shaw and Nodd.). Green Jungle-Fowl.*Phasianus varius* Shaw and Nodder, Nat. Misc. x, 1798, pl. 353 : Java.*Gallus furcatus* Temm., Cat. Syst. Cab. d'Ornith. etc. 1807, p. 146 : Malay Arch. = Java (*Mathews 1932*).*Gallus Javanicus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 185 : East Java.*Distr.*—Java; Bali; Kangean Island; Bawean Island.Genus **POLYPLECTRON** Temminck.**Polyplectron bicalcaratum** (Linn.). Peacock-Pheasant.**[Polyplectron bicalcaratum bicalcaratum** (Linn.).*Pavo bicalcaratus* Linn., Syst. Nat. 10th ed. 1758, p. 156 : China  
error = Thoungyah, Burma (*Lowe, 1925*).*Distr.*—Extra-limital.]

**Polyplectron bicalcaratum malacensis** (Scop.).

*Phasianus malacensis* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 93 : Territory of Malacca.

*Polyplectron hardwickii* J. E. Gray, Ill. Ind. Zool. i, 1831, pl. 37 : "India" error = Malacca.

*Polyplectron lineatum* J. E. Gray, Ill. Ind. Zool. i, 1831, pl. 38 : Malacca.

Distr.—Malay Peninsula.  
Sumatra.

**Polyplectron schleiermacheri** Brügg. Bornean Peacock-Pheasant.

*Polyplectron Schleiermacheri* Brüggemann, Zool. Gart. 1877, p. 213 : Muara Teweh, South-east Borneo.

Distr.—Borneo.

**Polyplectron inopinatus** (Rothsch.). Rothschild's Peacock-Pheasant.

*Chalcurus inopinatus* Rothschild, Bull. Brit. Orn. Cl. xiii, 1903, p. 41 : Ulu Pahang, Malay Peninsula.

Distr.—Malay States.

**Polyplectron chalcurem** Temm. Sumatran Peacock-Pheasant.

*Polyplectrum chalcurem* Temminck, in Cuv. Règn. An. i, 1829, p. 474 : Sumatra.

*Polyplectrum inocellatus* Less., Traité d'Orn. 1831, p. 487 : Sumatra.

Distr.—Sumatra.

Genus **ARGUSIANUS** Gray.

**Argusianus argus** (Linn.).

Argus Pheasant.

**Argusianus argus argus** (Linn.).

*Phasianus argus* Linn., Syst. Nat. 12th ed. i, 1766, p. 272 : Chinese Tartary error = Malacca.

*Argus giganteus* Temm., Pig. et Gall. ii, 1813, p. 410 : Malacca.

*Argus pavoninus* Vieill., N. Dict. d'Hist. Nat. ii, 1816, p. 507 (new name).

*Argus pavoninus* Vieill., Gal. des Ois. ii, 1825, p. 19, pl. 204 (new name).

*Argus paeoninus* J. E. Gray, Ill. Ind. Zool. i, 1831, pl. 36 : China error = Malacca.

Distr.—Malay Peninsula.  
Sumatra.

**Argusianus argus grayi** (Elliot).

*Argus grayi* Elliot, Ibis, 1865, p. 423 : Borneo.

Distr.—Borneo.

Genus **'RHEINARTIA** Maingonnat.

**Rheinartia ocellata** (Elliot). Ocellated Pheasant.

[**Rheinartia ocellata ocellata** (Elliot).

*Argus ocellatus* Elliot, Ann. Mag. Nat. Hist. viii, 1871, p. 119:  
Central Annam.

*Distr.*—Extra-limital.]

**Rheinartia ocellata nigrescens** Rothsch.

*Rheinardius ocellatus nigrescens* Rothschild, Bull. Brit. Orn. Cl. xii,  
1902, p. 55: Ulu Pahang, Malay Peninsula.

*Distr.*—Malay States.

Genus **PAVO** Linn.

**Pavo muticus** Linn. Peafowl.

*Pavo muticus* Linn., Syst. Nat. 12th ed. i, 1766, p. 268: Japan.  
error=Java.

*Pavo javanicus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 185: Java.

*Distr.*—Malay Peninsula.  
Java.

Family **TURNICIDÆ**.

Genus **TURNIX** Bonnaterre.

**Turnix suscitator** (Gmel.).<sup>2</sup> Bustard-Quail.

**Turnix suscitator suscitator** (Gmel.).

*Tetrao suscitator* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 763: Java.

*Turnix javanica* Rafin., Analyse, 1815: Java.

*Hemipodius pugnax* Temm., Fig. et Gall. iii, 1815, pp. 612, 754: Java.

*Distr.*—Sumatra (at least north to Medan and Deli); Rhio Archipelago; Banka; Billiton.  
Java; Bali.

**Turnix suscitator atrogularis** (Eyton).

*Hemipodius atrogularis* Eyton, Proc. Zool. Soc. 1839, p. 107:  
Malacca.

*Distr.*—Malay States.

? Sumatra (extreme North).

<sup>1</sup> *Rheinardia* and Maingounat are misprints. The genus is named after Comm. Rheinart.

<sup>2</sup> Revisions: Stresemann, Mitt. Zool. Mus. Berl. xv, 1930, p. 644; and Rob. and Baker, Bull. Brit. Orn. Cl. xlviii, 1928, p. 58.



**Turnix suscitator interruptens** Rob. and Baker.

*Turnix suscitator interruptens* Robinson and Baker, Bull. Brit. Orn. Cl. xlviii, 1928, p. 60: Kossoom, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Turnix sylvatica** (Desf.).

Little Bustard-Quail.

[*Turnix sylvatica sylvatica* (Desf.).

*Tetrao sylvaticus* Desfontaines, Mém. Ac. Roy. Soc. Paris, 1787, p. 500, pl. 13: near Algiers.

*Distr.*—Extra-limital.]

**\*Turnix sylvatica bartelsorum** Neum.

Bartel's Bustard-Quail.

*Turnix sylvatica bartelsorum* Neumann, Orn. Mon. 1929, p. 117: Cheribon, Java.

*Distr.*—Java.

**Turnix tanki** Blyth.

Indian Bustard-Quail.

[*Turnix tanki tanki* Blyth.

*Turnix tanki* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p. 180: Bengal.

*Distr.*—Extra-limital.]

**Turnix tanki blanfordi** Blyth.

*Turnix blanfordi* Blyth, Journ. Asiat. Soc. Bengal, xxxii, 1863, p. 80: Pegu, Lower Burma.

*Distr.*—Peninsular Siam.

## Family COLUMBIDÆ.<sup>1</sup>

Genus **SPHENURUS** Swainson.

**Sphenurus seimundi** (Rob.).

Seimund's Pintail Pigeon.

**Sphenurus seimundi seimundi** (Rob.).

*Sphenocercus seimundi* Robinson, Bull. Brit. Orn. Cl. xxv, 1910, p. 98: Semangko Pass, Selangor—Pahang boundary, Malay Peninsula.

*Distr.*—Malay States.

**Sphenurus oxyurus** (Reinw.).<sup>2</sup>

Pintail Pigeon.

*Columba oxyura* Reinwardt in Temminck, Pl. Col. 240, 1823: Java.

*Sphenurus semitorquatus* Swains., Class. Birds, ii, 1837, p. 348: nom. nov.

*Distr.*—Sumatra.

Java (West).

<sup>1</sup> *Oenopopelia tranquebarica humilis* (Temm.) is found in the Malay Peninsula but we doubt if it is indigenous.

<sup>2</sup> Has also been recorded from Borneo but we doubt its occurrence in that island.

**Sphenurus sphenurus** (Gould). Wedge-tailed Pigeon.

[**Sphenurus sphenurus sphenurus** (Gould).

*Vinago sphenura* Gould, Birds hitherto unfigured, from the Himalaya Mts. 1831, pl. 40: Himalayas.

*Distr.*—Extra-limital.]

**Sphenurus sphenurus korthalsi** (Bp.).

*Sphenocercus korthalsi* Bonaparte, Cons. Gen. Av. ii, 1854, p. 9: Mt. Gede, West Java.

*Sphenocercus etorques* Salvad., Ann. Mus. Civ. Gen. xiv, 1879, p. 244: Sumatra.

*Distr.*—Sumatra.

Java.

**Sphenurus sphenurus robinsoni** (O.-Grant).<sup>1</sup>

*Sphenocercus robinsoni* Ogilvie-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 12: Gunong Tahan, Pahang, Malay Peninsula.

*Distr.*—Malay States.

#### Genus **BUTRERON** Bonaparte.

**Butreron capellei** (Temm.). Larger Thick-billed Green Pigeon.

**Butreron capellei capellei** (Temm.).

*Columba capellei* Temminck, Pl. Col. 143, 1823: Java.

*Distr.*—Java (West).

Lampongs, South Sumatra.

**Butreron capellei magnirostris** (Strick.).

*Treron magnirostris* Strickland, Ann. Mag. Nat. Hist. 1844, p. 116, footnote: Malay Peninsula.

*Butreron capellei messopora* Oberh., Journ. Acad. Sci. Wash. xiv, 1924, p. 299: Klumpang Bay, South-east Borneo.

*Butreron capellei panochra* Oberh., Journ. Acad. Sci. Wash. xiv, 1924, p. 300: Besitan River, East Sumatra.

*Distr.*—Malay Peninsula.

Sumatra (? except South).

Borneo.

\***Butreron capellei passorhina** Oberh.

*Butreron capellei passorhina* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 192: Mata Siri Island, Java Sea.

*Distr.*—Mata Siri Island, Java Sea.

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<sup>1</sup> A doubtful race: additional material from the Malay Peninsula is required before *robinsoni* can be finally accepted.

Genus **TRERON** Vieillot.

**Treron curvirostra** (Gmel.). Smaller Thick-billed Green Pigeon.

**Treron curvirostra curvirostra** (Gmel.).

*Columba curvirostra* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 777, n. 45 :  
Tanna error = Selangor, Malay Peninsula (*Rob. and Kloss, 1921*).

*Treron nasica* Schleg., Nederl. Tijds. Dierk. j, 1863, p. 67 : Banjermasin,  
South Borneo.

*Distr.*—South Peninsular Siam, Malay States.

Sumatra (part); Rhio Archipelago; Banka; Billiton.  
Borneo; North Natuna Islands.

**Treron curvirostra nipalensis** (Hodgs.).

*Toria nipalensis* Hodgson, Asiat. Res. xix, 1836, p. 164, pl. 9 :  
Nepal.

*Distr.*—Peninsular Siam (except extreme South); Langkawi and  
Butang Islands off west coast; islands of the Bandon Bight off the  
east coast of the Malay Peninsula.

**Treron curvirostra harterti** Parrot.

*Treron nipalensis harterti* Parrot, Abh. Kon. Bay. Akad. Wiss. xxiv,  
1907, p. 261 : Deli, North-east Sumatra.

*Distr.*—Sumatra (North-east).

\***Treron curvirostra haliploa** Oberh.

*Treron curvirostra haliploa* Oberholser, Smith. Misc. Coll. lx, 7,  
1912, p. 4 : Sibabo Bay, Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

\***Treron curvirostra pega** Oberh.

*Treron curvirostra pega* Oberholser, Smith. Misc. Coll. lx, 7, 1912,  
p. 4 : Siaba Bay, Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Treron curvirostra smicra** Oberh.

*Treron curvirostra smicra* Oberholser, Smiths. Misc. Coll. lx, 7,  
1912, p. 3 : Tana Bala Island, Batu Islands.

*Distr.*—Batu Islands; Mentawi Islands (Siberut and Sipora), West  
Sumatra.

\***Treron curvirostra hypothapsina** Oberh.

*Treron curvirostra hypothapsina* Oberholser, Smith. Misc. Coll. lx,  
7, 1912, p. 3 : Engano Island.

*Distr.*—Engano Island, West Sumatra.  
Kelapa Island, West Java.<sup>1</sup>

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<sup>1</sup> Racial identity not certain.

**Treron curvirostra erimaca** Oberh.

*Treron curvirostra erimaca* Oberholser, Journ. Wash. Acad. Sci. xiv, 1924, p. 297: Balabac Island, Philippine Islands.

*Distr.*—North Bornean Islands (Banguey and Balambangan).

**Treron pompadora** (Gmel.).

Pompadour Green Pigeon.

**[Treron pompadora pompadora** (Gmel.).

*Columba pompadora* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 775: Ceylon.

*Distr.*—Extra-limital.]

**Treron pompadora pulverulenta** Wall.

*Treron pulverulenta* Wallace, Ibis, 1863, p. 319: East Java.

*Distr.*—Sumatra (South).  
Java.

**Treron pompadora vordermani** Finsch.

*Treron Vordermani* Finsch, Notes Leyden Mus. xxii, 1900, p. 162: Kangean Islands.

*Distr.*—Kangean Islands.

**Treron fulvicollis** (Wagl.).

Cinnamon-headed Green Pigeon.

**Treron fulvicollis fulvicollis** (Wagl.).

*Columba fulvicollis* Wagler, Syst. Av. Columba, sp. 8, 1827: Java, error=Sumatra.

*Columba ferruginea* Wagl. (nec Forst.), Isis, 1829, p. 738: Java error=Sumatra.

*Columba cinnamomea* Temm., Pl. Col. Livr. 93, text, 1835: Pontianak, South Borneo.

*Treron tenuirostre* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 230: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo (except North).

**Treron fulvicollis oberholseri** Chas.

*Treron fulvicollis oberholseri* Chasen, Bull. Raffles Mus. 9, 1934, p. 92: Bunguran, North Natuna Islands.

*Distr.*—North Natuna Islands.

**\*Treron fulvicollis melopogenys** (Oberh.).

*Dendrophassa fulvicollis melopogenys* Oberholser, Smiths. Misc. Coll. ix, 7, 1912, p. 3: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**Treron fulvicollis baramensis** Meyer.

*Treron fulvicollis baramensis* Meyer, Journ. f. Orn. 1891, p. 73 :  
Baram, North-west Borneo.

*Distr.*—Borneo (North Sarawak and British North Borneo); North  
Bornean Islands.

**Treron bicincta** (Jerd.). Orange-breasted Green Pigeon.

[*Treron bicincta bicincta* (Jerd.).

*Vinago bicincta* Jerdon, Madras Journ. Lit. Sci. xii, 1840, p. 13 :  
Madras.

*Distr.*—Extra-limital.]

**Treron bicincta praetermissa** Rob. and Kloss.

*Treron bisincta praetermissa* Robinson and Kloss, Journ. Fed. Malay  
States Mus. x, 1921, p. 203 : Koh Lak, South-west Siam.

*Distr.*—Malay Peninsula.

**Treron bicincta javana** Rob. and Kloss.

*Treron bisincta javana* Robinson and Kloss, Journ. Fed. Malay  
States Mus. xi, 1923, p. 53 : Badjoelmati, East Java.

*Distr.*—Java (Central and East).

**Treron vernans**<sup>1</sup> (Linn.). Pink-necked Green Pigeon.

[*Treron vernans vernans* (Linn.).

*Columba vernans* Linn., Mantissa Plant. 1771, p. 526 : Luzon Island,  
Philippine Islands.

*Distr.*—Extra-limital.]

**Treron vernans griseicapilla** Schleg.

*Treron griseicapilla* Schlegel, Nederl. Tijd. Dierk. i, 1863, p. 70 :  
Sumatra.

*Dendrophassa vernans abbotti* Oberholser, Journ. Wash. Acad. Sci. xiv,  
1924, p. 298 : Trang, Peninsular Siam.

*Distr.*—Malay Peninsula; Tioman Archipelago (except Tioman  
Island).

Sumatra (except North-east); Rhio Archipelago; Banka;  
Billiton.

Borneo (except South-east); Mantanani and Mangalum  
Islands.

Java (West).

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<sup>1</sup> Revision : Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 32.

**Treron vernans purpurea** (Gmel.).

*Columba purpurea* Gmelin, Syst. Nat. i, pt. 2, 1739, p. 784 : Java.

*Distr.*—Java (Central and East); Bali; ? Kangean Islands.<sup>1</sup>

Borneo (South-east); Maratua Islands.

**Treron vernans parva** Kloss.

*Treron vernans parva* Kloss, Treubia, xiii, 1931, p. 308 : Deli, North-east Sumatra.

*Distr.*—Sumatra (North-east).

**Treron vernans adina** (Oberh.).<sup>2</sup>

*Dendrophassa vernans adina* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 20 : Mata Island, Anamba Islands.

*Dendrophassa vernans pellochloa* Oberh., Bull. U. S. Nat. Mus. clix, 1932, p. 30 : Sirhassen Island, South Natuna Islands.

*Distr.*—Tioman Island, Anamba Islands; North and South Natuna Islands.

**\*Treron vernans miza** (Oberh.).

*Dendrophassa vernans miza* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 3 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra; ? Banjak Islands.

**\*Treron vernans mesochloa** (Oberh.).

*Dendrophassa vernans mesochloa* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 2 : Nias Island.

*Dendrophassa vernans polioptila* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 3 : North Pagi Island, Mentawi Islands, West Sumatra.

*Distr.*—Nias Island; Tana Bala, Batu Islands; Mentawi Islands; Engano Island, West Sumatra.

**Treron olax** (Temm.).

Little Green Pigeon.

*Columba olax* Temminck, Pl. Col. 241, 1823 : Padang, Sumatra.

*Osmotreron olax hageni*, Parrot, Abh. Kon. Bay. Akad. Wiss. xxiv, 1907, p. 266 : Deli, North-east Sumatra.

*Dendrophassa olax arismicra* Oberholser, Journ. Acad. Sci. Wash. xiv, 1924, p. 298 : Segah River, North-east Borneo.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka.

Borneo; North Natuna Islands.

Java.

<sup>1</sup> Birds from the Kangean Islands are, according to Hartert, like *purpurea* in colour, but the few published measurements show that they are larger.

<sup>2</sup> Visual records from the Tambelan Islands probably refer to this race : *T. v. griseicapilla* from Borneo appears to visit the Natuna Islands at certain seasons.

Genus **PTILINOPUS** Swainson.**Ptilinopus porphyreus** (Temm.). Sunda Island Fruit-Dove.*Columba porphyrea* "Reinw" Temminck, Pl. Col. 106, 1823: Java.*Columba roseicollis* Wagl., Syst. Av. Columba, 1827: Java.*Ptilinopus erythrocephalus* Swains., Class. Birds, ii, 1837, p. 347: new name for *C. porphyrea**Distr.*—Sumatra.

Java; Bali.

**Ptilinopus cinctus** (Temm.). White-headed Fruit Dove.[*Ptilinopus cinctus cinctus* (Temm.).]*Columba cincta* Temminck, in Temm. and Knip, Pigeons, 1810, p. 58, pl. 23: South Asia=Timor (Hartert, 1904).*Distr.*—Extra-limital.]**Ptilinopus cinctus albocinctus** Wall.*Ptilinopus albocinctus* Wallace, Proc. Zool. Soc. 1863, p. 496, pl. 39: Flores.*Ptilinopus albocinctus baliensis* Hart., Nov. Zool. iii, 1896, p. 553: Bali.*Distr.*—Bali.**Ptilinopus jambu** (Gmel.). Pink-headed Fruit-Dove.*Columba jambu* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 784: Java, error=Sumatra (Hartert, 1902).*Distr.*—Malay Peninsula; Tioman Archipelago.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo.

**Ptilinopus melanocephalus** (Penn.). Black-naped Fruit-Dove.**Ptilinopus melanocephalus melanocephalus** (Penn.).*Columba melanocephala* Pennant, Ind. Zool. 1769, p. 6, pl. 6: Java.*Columba Indica* Müll., Natursyst. Suppl. 1776, p. 133: Batavia.*Hamatana richmondensis* Math., Bull. Brit. Orn. Cl. xlv, 1926, p. 60: nom. nov.*Distr.*—Java; Bali; Kangean Islands.**\*Ptilinopus melanocephalus massopterus** (Oberh.).*Haemataena melanocephala massoptera* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 191: Mata Siri Island, Java Sea.*Distr.*—Mata Siri Island, Java Sea.

**Ptilinopus melanocephalus bangueyensis** (Meyer).

*Ptilopus bangueyensis* Meyer, Journ. f. Ornith. 1891, p. 70 : Banguey Island, North Borneo.

*Distr.*—North Bornean Islands of Banguey and Balambangan; Maratua Islands.

Karimon-Java Islands.

Genus **DUCULA** Hodgs.**Ducula ænea**<sup>1</sup> (Linn.).

Green Imperial Pigeon.

**Ducula ænea ænea** (Linn.).

*Columba ænea* Linn., Syst. Nat. 12th ed. i, 1766, p. 283 : Moluccas, error = Flores (Hart. and Goodson, 1918).

*Colomba Moluccensis* Müll., Natursyst. Suppl. 1776, p. 133 : Moluccas error = Borneo (Oberh. 1932).

*Muscadivores æneus polius* Oberh., Bull. U. S. Nat. Mus. 98, 1917, p. 18 : Siantan Island, Anamba Islands.

*Muscadivores æneus arhadius* Oberh., Journ. Wash. Acad. Sci. xiv, 1924, p. 296 : Kateman River, East Sumatra.

*Muscadivores æneus diatropurus* Oberh., Bull. U. S. Nat. Mus. 159, 1932, p. 25 : Pulau Midai, Natuna Islands.

*Distr.*—Malay Peninsula; Tioman Archipelago; Anamba Islands; Tambelan Islands.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo; Natuna Islands; Karimata Islands.

Java; Karimon-Java Islands.

**Ducula ænea palawanensis** (Blas.).

*Carpophaga ænea* nov. var. *palawanensis* Blasius, Ornith. iv, 1888, p. 316 : Palawan.

*Distr.*—Banguey Island, North Borneo.

**\*Ducula ænea mista** (Oberh.).

*Muscadivores æneus mistus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 2 : Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**Ducula ænea babiensis** (Richm.).

*Muscadivores consobrina babiensis* Richmond, Proc. Biol. Soc. Wash. xxv, 1912, p. 103 : Babi Island, West Sumatra.

*Distr.*—Babi and Lasia Islands, West Sumatra.

<sup>1</sup> Revision : Oberh., Bull. U. S. Nat. Mus. 1591, p. 27.



**Ducula ænea consobrina** (Salvad.).

*Carpophaga consobrina* Salvadori, Ann. Mus. Civ. Gen. (2) 4, 1887, p. 558: Nias Island, West Sumatra.

*Carpophaga vandepolli* Büttikofer, Notes Leyd. Mus. xviii, 1896, p. 190: Nias Island.<sup>1</sup>

*Distr.*—Nias Island; Banjak Islands, West Sumatra.

**Ducula ænea vicina** (Riley).

*Muscadivores æneus vicinus* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 95: Sipora Island, Mentawi Islands, West Sumatra.

*Distr.*—Batu Islands; Mentawi Islands, West Sumatra.

**Ducula ænea cenothonax** (Salvad.).

*Carpophaga cenothonax* Salvadori, Ann. Mus. Civ. Gen. (2) 12, 1892, p. 139: Engano Island, West Sumatra.

*Distr.*—Engano Island, West Sumatra.

**Ducula rosacea** (Temm.).

Island Imperial Pigeon.

**Ducula rosacea rosacea** (Temm.).

*Columba rosacea* Temminck, Pl. Col. 578, 1835: Timor.

*Distr.*<sup>2</sup>—Thousand Islands, Java Sea (West); Kangean Islands; Karimon-Java Islands.

**\*Ducula rosacea zamydra** (Oberh.).

*Muscadivores rosaceus zamydrus* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 179: Solombo Besar Island, Java Sea.

*Distr.*—Islands of Solombo Besar and Arends, Java Sea (East).

**Ducula rosacea whartoni** (Sharpe).

Christmas Island Pigeon.

*Carpophaga whartoni* Sharpe, Proc. Zool. Soc. 1887, p. 515, pl. 43: Christmas Island, Indian Ocean.

*Distr.*—Christmas Island, Indian Ocean; Cocos Keeling Islands (introduced).

**Ducula pickeringii** (Cass.).

Pickering's Imperial Pigeon.

**Ducula pickeringii pickeringii** (Cass.).

*Carpophaga pickeringii* Cassin, Proc. Acad. Nat. Sci. Philad. vii, 1854, p. 228: Mangsi Islet, North Borneo.

*Carpophaga everetti* O.-Grant, Ann. Mag. Nat. Hist. (6) ii, 1888, p. 351: Mantanani Island.

*Distr.*—North Bornean Islands of Mangsi, Mangalum and Mantanani; Maratua Islands.

<sup>1</sup> Fide G. C. A. Junge (Mus. Leyden) in litt.

<sup>2</sup> Birds from all these localities may of course be *D. r. zamydra* which we have not seen.

**Ducula badia** (Raffles). Mountain Imperial Pigeon.

**Ducula badia badia** (Raffles).

*Columba badia* Raffles, Trans. Linn. Soc. xiii, 1822, p. 317: Bencoolen, West Sumatra.

\* *Columba capistrata* Temm., Pl. Col. 165, 1823: Batavia, West Java.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java (West only).<sup>1</sup>

**Ducula badia lacernulata** (Temm.).

*Columba lacernulata* Temminck, Pl. Col. 164, 1823: Java.

?*Ducula concolor* Bp., Compt. Rend. xliiii, 1856, p. 836: Java.

*Distr.*—Java (West and Central).

**Ducula badia williami** (Hart.).

*Carpophaga williami* Hartert, Nov. Zool. iii, 1896, p. 552: Bali.

*Distr.*—Java (East); Bali.

#### Genus **MYRISTICIVORA** Reichenbach.

**Myristicivora bicolor** (Scop.). Pied Imperial Pigeon.

**Myristicivora bicolor bicolor** (Scop.).

*Columba bicolor* Scopoli, Del Flor. et Fauna Insubr. ii, 1786, p. 94: New Guinea.

*Distr.*—Malay Peninsula; Tioman Archipelago; Anamba Islands; Tambelan Islands; Saddle Island.

Sumatra; Rhio Archipelago; Lingga Archipelago; Billiton; Simalur Island; Flat Islands; Nias Island; Sipora and Pagi Islands, Mentawi Islands; Engano Island.

Borneo; Mangalum Island; Mantanani Island; Maratua Islands; Natuna Islands; Karimata Islands.

Java; Kangean Islands; Christmas Island.

#### Genus **COLUMBA** Linn.<sup>2</sup>

**Columba argentina** Bp. Grey Wood-Pigeon.

*Columba argentina* Bonaparte, Consp. Gen. Avium ii, 1854, p. 36: Borneo (*Robinson and Kloss*, 1923).

[*Myristicivora*] *Carpophaga grisea* (not *Columba grisea* Bonnaterre 1790), Bp., Consp. Gen. Av., ii, 1855, p. 36 (Gray MS.): Indian Archipelago.

<sup>1</sup> Very few examples of *badia* have been recorded from West Java and it seems likely that it either occupies a very restricted area in the island, or that it is a casual visitor from the Lampongs.

<sup>2</sup> A skin of *Columba livia intermedia* Strickl., in the British Museum, from Salanga (Puket), Peninsular Siam, is probably not that of a wild bird.

Revision: Snouck v. Schaub, Org. Cl. Ned. Vog. iii, 1930-31, p. 13.

# COLUMBIDÆ.

*Columba phasma* Richmond, Proc. U. S. Nat. Mus. xxvi, 1903, p. 490 :  
nom. nov.

*Distr.*—? Jarak Island, Straits of Malacca;<sup>1</sup> Anamba Islands.  
Sumatra; Karimon, Bintang and Batam Islands, Rhio Archi-  
pelago; Taya Island, Lingga Archipelago; Simalur Island;  
Pagi Islands.

Borneo; Karimata Islands; North Natuna Islands.

**Columba punicea** (Tick.). Purple Wood-Pigeon.

*C. (Alsocomus) puniceus* Tickell in Blyth, Journ. Asiat. Soc. Bengal,  
xi, 1842, p. 461 : Singbhum, Chota Nagpur.

*Distr.*—Peninsular Siam.

**Columba vitiensis** Quoy and Gaim.

[*Columba vitiensis vitiensis* Quoy and Gaim.

*Columba vitiensis* Quoy and Gaimard, Voy. "Astrolabe", Zool. i,  
1830, p. 246, pl. 28 : Fiji.

*Distr.*—Extra-limital.]

**Columba vitiensis griseogularis** (Wald. and Layard). Grey-throated  
Wood-Pigeon.

*Ianthœnas griseogularis* Walden and Layard, Ibis 1872, p. 104,  
pl. 6 : Guimaras, Philippine Islands.

*Distr.*—Islands of Tiga and Mantanani, North Borneo;<sup>2</sup> Maratua  
Islands.

## Genus **MACROPYGIA** Swainson.

**Macropygia unchall** (Wagl.). Large Cuckoo-Dove.

**Macropygia unchall unchall** (Wagl.).

*Columba Unchall* Wagler, Syst. Av. Columba no. 38, 1827 : Java.

*Columba leptogrammica* Temm., Pl. Col. 560, 1835 : Java.

*Macropygia walik-mehra* Reichb., Tauben, 1862, p. 86, pl. 3 : Java.

*Distr.*—Malay States.

Sumatra.

Java.

**Macropygia phasianella** (Temm.). Sunda Island Cuckoo-Dove.

[*Macropygia phasianella phasianella* (Temm.).

*Columba phasianella* Temminck, Trans. Linn. Soc. xiii, 1821,  
p. 129 : near Port Jackson, New South Wales.

*Distr.*—Extra-limital.]

<sup>1</sup> Visual records by H. C. Robinson.

<sup>2</sup> Has also been recorded from the mainland of North Borneo but this  
needs confirmation.

**Macropygia phasianella emiliana** Bp.

*Macropygia emiliana* Bonaparte, Consp. Gen. Avium ii, 1855, p. 58 : Java.

*Macropygia phasianella barussa* Siebers, Treubia, xi, 1929, p. 152 : Palembang, Sumatra.

Distr.—Java; Bali.  
Sumatra.

**Macropygia phasianella megala** Siebers.

*Macropygia phasianella megala* Siebers, Treubia, xi, 1929, p. 151 : Ardjasa, Kangean Island.

Distr.—Kangean Island.

**Macropygia phasianella borneensis** Rob. and Kloss.

*Macropygia emiliana borneensis* Robinson and Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 203 : Saribas, Sarawak, Borneo.

Distr.—Borneo.

**\*Macropygia phasianella hypoperca** Oberh.

*Macropygia emiliana hypoperca* Oberholser, Smiths. Misc. Coll. ix, 7, 1912, p. 2 : Simalur Island, West Sumatra.

Distr.—Simalur Island, West Sumatra.

**Macropygia phasianella modiglianii** Salvad.

*Macropygia modiglianii* Salvadori, Ann. Mus. Civ. Gen. (2) 4, 1887, p. 559, pl. 8 : Nias Island, West Sumatra.

Distr.—Nias Island, West Sumatra.

**Macropygia phasianella elassa** Oberh.

*Macropygia emiliana elassa* Oberholser, Smiths. Misc. Coll. ix, 7, 1912, p. 2 : North Pagi Island, Mentawi Islands, West Sumatra.

Distr.—Sibérut, Sipora, North and South Pagi Islands, West Sumatra.

**Macropygia phasianella cinnamomea** Salvad.

*Macropygia cinnamomea* Salvadori, Ann. Mus. Civ. Gen. (2) 12, 1892, p. 140 : Engano Island, West Sumatra.

Distr.—Engano Island, West Sumatra.

**Macropygia ruficeps** (Temm.).<sup>1</sup>

Small Cuckoo-Dove

**Macropygia ruficeps ruficeps** (Temm.).

*Columba ruficeps* Temminck, Pl. Col. 561, 1835 : Java.

Distr.—Java; Bali.

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<sup>1</sup> Revision : Stres., Nov. Zool. xx, 1913, p. 311.

**Macropygia ruficeps malayana** Chas. and Kloss.

*Macropygia ruficeps malayana* Chasen and Kloss, Bull. Raffles Mus., 5, 1931, p. 82: Semangko Pass, Perak-Pahang Boundary, Malay States.

*Distr.*—Malay States.

**Macropygia ruficeps sumatrana** Rob. and Kloss.

*Macropygia ruficeps sumatranus* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. lxxx, 1919, p. 77: Ophir District, West Sumatra.

*Distr.*—Sumatra.

**Macropygia ruficeps nana** Stres.

*Macropygia ruficeps nana* Stresemann, Nov. Zool. xx, 1913, p. 311: Mt. Kina Balu, North Borneo.

*Distr.*—Borneo.

**\* Macropygia ruficeps simalurensis** Richm.

*Macropygia simalurensis* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 187: Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

Genus **STREPTOPELIA** Bonaparte.**Streptopelia bitorquata** (Temm.).

Island Turtle-Dove.

**Streptopelia bitorquata bitorquata** (Temm.).

*Columba bitorquata* Temminck in Temm. and Knip, Pigeons, i, 1811, p. 86, pl. 40: India error=Timor (*Hellmayr*, 1914).

*Distr.*—Sumatra.<sup>1</sup>  
Java; Bali.

**Streptopelia bitorquata dusumieri** (Temm.).

*Columba dusumieri* Temminck, Pl. Col. 1823, pl. 188: Manila, Philippine Islands.

*Distr.*—Borneo.<sup>2</sup>

**Streptopelia chinensis** (Scop.).

Spotted Dove.

**[Streptopelia chinensis chinensis** (Scop.).

*Columba chinensis* Scopoli, Del. Flor. et Fauna Insubr. 1786, p. 94: China.

*Distr.*—Extra-limital.]

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<sup>1</sup> Doubtfully indigenous in Sumatra.

<sup>2</sup> Almost certainly introduced into Borneo as a cage-bird.

**Streptopelia chinensis tigrina** (Temm.).<sup>1</sup>

*Columba Tigrina* Temminck in Temm. and Knip, Pigeons, i, 1811, p. 94, tab. 43 : Java.

*Metriopelia inornata* Bp., Consp. Gen. Av. ii, 1855 : Brazil error=Java (Mathews, 1927).

*Distr.*—Malay Peninsula; Tambelan Islands.

Sumatra (part); Rhio Archipelago; Banka; Billiton.

Borneo; North Bornean Islands.

Java; Bali; Kangean; Bawean Island.

**Streptopelia chinensis minor** (Parrot).

*Turtur tigrinus minor* Parrot, Abh. Kon. Bay. Akad. Wiss. 2, Kl. 24, Bd. i, 1907, p. 275 : Deli, North-east Sumatra.

*Distr.*—Sumatra (North).

Genus **GEOPELIA** Swainson.**Geopelia striata** (Linn.).

Barred Ground-Dove.

**Geopelia striata striata** (Linn.).<sup>2</sup>

*Columba striata* Linn., Syst. Nat. 12th ed, i, 1766, p. 282 : "East Indies" = Malacca.

*Columba malaccensis* Gmel., Syst. Nat. i, 1788, p. 788 : Kedah ex Sonnerat.

*Columba bantamensis* Sparrm., Mus. Carls. fasc. 3, 1788, pl. 67 : Java.

*Geopelia lineata* Swains., Class Birds, ii, 1837, p. 348 : New name for *bantamensis* Sp.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Billiton; Banka.

Borneo; Natuna Islands.

Java; Bali; Kangean Islands; Bawean Island; Karimon-Java Islands.

Genus **CHALCOPHAPS** Gould.**Chalcophaps indica** (Linn.).

Emerald Dove.

**Chalcophaps indica indica** (Linn.).

*Columba indica* Linn., Syst. Nat. 10th ed. 1758, p. 164 : Calcutta (Baker, 1928).

*Columba javanensis* Müll., Natursyst. Suppl. 1776, p. 133 : Java.

<sup>1</sup> This is a favourite cage-bird in Malaysia and the range given may be artificially large.

<sup>2</sup> Has almost certainly been introduced into some of the islands included in the range. We are not satisfied that *Columba sinica* Linn., Syst. Nat. 10th ed. 1758, p. 164 applies to this species.

*Columba Javanica* Gmel., Syst. Nat. 1789, p. 781 : Java.

*Peristera bornensis* Bp., Consp. Av. ii, 1855, p. 91 : as syn. of *C. javanica*.

*Distr.*—Malay Peninsula; Tioman Archipelago; Anamba Islands; Tambelan Islands.

Sumatra; Rhio Archipelago; Banka; Billiton; West Sumatran Islands of Simalur, Babi, Lasia, Nias, Siberut, North Pagi and Engano.

Borneo; North Bornean Islands; Mangalum Island; Natuna Islands.

Java; Bali; Kangean Islands; Bawean Island.

*Chalcophaps indica natalis* Lister.

*Chalcophaps natalis* Lister, Proc. Zool. Soc. 1888, p. 522 : Christmas Island.

*Distr.*—Christmas Island, Indian Ocean

### Genus **CALCENAS** Gray.

**Caloenas nicobarica** (Linn.).

Nicobar Pigeon.

**Caloenas nicobarica nicobarica** (Linn.).

*Columba nicobarica* Linn., Syst. Nat. 10th ed. 1758, p. 164 : Nicobar Islands.

*Distr.*—Small islands almost everywhere in Malaysia but apparently never on the large land masses of the Malay Peninsula, Sumatra, Borneo, Java, Bali, Banka and Billiton.

## Family RALLIDÆ.

**Rallus striatus** Linn.

Blue-breasted Banded Rail.

**Rallus striatus striatus** (Linn.).

*Rallus striatus* Linn., Syst. Nat. 12th ed. 1, 1766, p. 262 : Philippine Islands=Manila (*Oberh.*, 1924).

*Distr.*—Borneo (perhaps not in the South).

**Rallus striatus gularis** Horsf.<sup>1</sup>

*Rallus gularis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 196 : Java.

*Distr.*—Malay Peninsula.

Sumatra; Billiton.

? South Borneo.

Java.

<sup>1</sup> Birds from the Malay Peninsula and Sumatra belong to the same race : good series of *gularis* are not available for comparison. The Malayan bird does not attain the large size of the Indian *albiventer* Sw.

**Rallus striatus jouyi** (Stejn.).<sup>1</sup>

*Hypotaenidia jouyi* Stejneger, Proc. U.S. Nat. Mus. ix, 1886, p. 362 : Shanghai.

Distr.—Malay States.

**\*Rallus striata reliquus** (Oberh.).

*Hypotaenidia striata reliqua* Oberholser, Proc. U.S. Nat. Mus. lv, 1919, p. 476 : Simalur Island, West Sumatra.

Distr.—Simalur Island, West Sumatra.

**Rallus philippensis** Linn.

Philippine Rail.

[**Rallus philippensis philippensis** Linn.]

*Rallus philippensis* Linn., Syst. Nat. 12th ed. i, 1766, p. 263 : Philippine Islands.

Distr.—Extra-limital.]

**Rallus philippensis andrewsi** (Math.).

*Eulabeornis philippensis andrewsi* Mathews, Bds. Austr. i, 1911, p. 199 : Cocos-Keeling Islands.

Distr.—Cocos-Keeling Islands.

**Rallus fasciatus** Raffles.

Malay Banded Crake.

*Rallus fasciatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 328 : Bencoolen, West Sumatra.

*Gallinula eurisoma* Temm., Pl. Color. 417, 1826 : Java.

*Rallus ruficeps* Less., Traité d'Orn. 1831, p. 537 : Java.

Distr.—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Banka; Billiton; West Sumatran Islands of Batu group, Sipora and Engano.

Borneo; South Natuna Islands.

Java; Bali.

**Rallus eurizonoides** (Lafres.).

Banded Crake.

[**Rallus eurizonoides eurizonoides** (Lafres.).]

*Gallinula eurizonoides* Lafresnaye, Rev. Zool. 1845, p. 368 : Philippines.

Distr.—Extra-limital.]

**Rallus eurizonoides nigrolineatus** (G. R. Gray).<sup>2</sup>

*Zapornia nigrolineata* G. R. Gray, Cat. Bds. Nepal, 1846, p. 143 : Nepal.

*Rallus superciliaris* Eyt. (not Vieill.), Ann. Mag. Nat. Hist. xvi, 1845, p. 230 : Malacca.

*Rallina telmatophila* Hume, Stray Feath. vii, 1878, p. 142 : Malacca.

Distr.—Malay Peninsula.

Sumatra.

<sup>1</sup> We refer certain large birds from Singapore and Johore to *jouyi*, but do not know how this bird differs from *albiventer* Sw.

<sup>2</sup> Fide J. L. Peters (1934).



**Rallus paykullii** Ljungh. - Chinese Banded Crake.

*Rallus Paykullii* Ljungh, Kongl. Vet. Acad. Handl. 1813, p. 258 :  
Batavia, Java.

*Porsana rufigenis* Wall., Proc. Zool. Soc. 1865, p. 481 : Sarawak, Borneo.  
*Rallina (Eurysona) sonaiventris* Cab., Journ. f. Orn. 1881, p. 425 :  
Malacca.

*Distr.*—Malay States.  
Sumatra.  
Borneo.  
Java.

Genus **PORZANA** Vieillot.

**Porzana pusilla** (Pall.). Eastern Little Crake.

**Porzana pusilla pusilla** (Pall.).

*Rallus pusillus* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 700 :  
Dauria.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.  
Java (West).

**Porzana cinerea** (Vieill.). Grey-bellied Crake.

**Porzana cinerea cinerea** (Vieill.).

*Porphyrio cinereus* Vieillot, Nouv. Dict. xxviii, 1819, p. 29 : Java  
(Mathews, 1911).

*Rallus quadristrigatus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 196 : Java.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.  
Java; Kangean Islands.

**Porzana fusca** (Linn.). Ruddy Crake.

**Porzana fusca fusca** (Linn.).

*Rallus fuscus* Linn., Syst. Nat. 12th ed. 1, 1766, p. 262 : Philippine  
Islands.

*Rallus rubiginosus* Temm., Pl. Col. 357, 1825 : Java.

*Distr.*—Malay States.  
Sumatra.  
Borneo.  
Java; Christmas Island.

**Porzana fusca erythrothorax** (Temm. and Schleg.).

*Gallinula erythrothorax* Temminck and Schlegel, Faun. Japon.  
Aves, 1849, p. 121, pl. 78 : Japan.

*Distr.*—Peninsular Siam.

- Porzana bicolor** Wald.<sup>1</sup> Elwe's Crake.  
*Porzana bicolor* Walden, Ann. Mag. Nat. Hist. (4) 9, 1872, p. 47 :  
 Darjiling, Sikkim.  
*Distr.*—? Malay States.

Genus **AMAUORNIS**<sup>2</sup> Reichenbach.

- Amauornis phoenicurus** (Penn.). White-breasted Water-Hen.  
 [**Amauornis phoenicurus phoenicurus** (Penn.).

*Gallinula phoenicurus* Pennant, Ind. Zool. 1769, p. 10 : Ceylon.  
*Distr.*—Extra-limital.]

**Amauornis phoenicurus chinensis** (Bodd.).

*Fulica chinensis* Boddaert, Tabl. Planch. Enlum. 1783, p. 54 :  
 China = Hongkong (*Stresemann*, 1913).  
*Distr.*—Malay Peninsula.  
 Sumatra.<sup>3</sup>

**Amauornis phoenicurus javanicus** (Horsf.).

*Gallinula javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 196 :  
 Java.  
*Gallinula sumatranus* Raffles, Trans. Linn. Soc. xiii, 1822, pp. 70, 328 :  
 Sumatra.  
*Amauornis phoenicurus cleptea* Oberh., Smiths Misc. Coll. lx, 7 1912,  
 p. 2 : Nias Island.  
*Distr.*—Malay States (extreme south); Singapore Island.  
 Sumatra; Banka; Rhio Archipelago; West Sumatran Islands  
 of Simalur, Nias, Batu Islands and the Mentawi Islands.  
 Borneo; South Natuna Islands; Billiton.  
 Java; Bali; Thousand Islands, Java Sea; Kangean Islands.

Genus **GALLINULA** Brisson.

- Gallinula tenebrosa** Gould. Black Moor-Hen.  
 [**Gallinula tenebrosa tenebrosa** Gould.

*Gallinula tenebrosa* Gould, Birds Austr. 1846, pt. xxiii, pl. 73 :  
 South Australia.  
*Distr.*—Extra-limital.]

\***Gallinula tenebrosa frontata** Wall.

*Gallinula frontata* Wallace, Proc. Zool. Soc. 1863, p. 35 : Buru.  
*Distr.*—Borneo (South-east). \*

<sup>1</sup> The authenticity of a single specimen recorded from Johore is open to doubt.

<sup>2</sup> cf. Stres., Nov. Zool. xx, 1913, p. 303; Chas. and Kl., Journ. Siam Soc. (Nat. Hist. Suppl.) vii, 1928, p. 157.

<sup>3</sup> Long-winged birds occurring in Sumatra are, no doubt, migrants of this race.

**Gallinula chloropus** (Linn.). Moor-Hen.

[**Gallinula chloropus chloropus** (Linn.).

*Fulica chloropus* Linn., Syst. Nat. 10th ed. 1758, p. 152 : England.

*Distr.*—Extra-limital.]

**Gallinula chloropus orientalis** Horsf.

*Gallinula orientalis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 195 : Java.

*Distr.*—Malay States.

Sumatra.

Borneo.

Java; Bali; Kangean Islands.

Genus **GALLICREX** Blyth.

**Gallixrex cinerea** (Gmel.).<sup>1</sup> Water-Cock.

[**Gallixrex cinerea cinerea** (Gmel.).

*Fulica cinerea* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 702 : China.

*Distr.*—Extra-limital.]

**Gallixrex cinerea plumbea** (Vieill.).

*Gallinula plumbea* Vieillot, Nouv. Dict. d'Hist. Nat. ed. 2, xii, 1817, p. 404 : Java.

*Gallinula gularis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 195 : Java.

*Gallinula lugubris* Horsf., Trans. Linn. Soc. xiii, 1821, p. 195 : Java.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo.

Java (West only); Karimon-Java Islands and Kalambau Islands, East Java Sea.

Genus **PORPHYRIO** Brisson.

**Porphyrio albus** (White). Purple Moor-Hen.

[**Porphyrio albus albus** (White).

*Fulica alba alba* White, Journ. Voy. New South Wales, 1790, p. 238 : Lord Howe Island.

*Distr.*—Extra-limital.]

**Porphyrio albus viridis** Begbie.

*Porphyrio viridis* Begbie, Malayan Peninsula, 1834, p. 515 : Malacca.

*Distr.*—Malay States.

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<sup>1</sup> Judging from the few available measurements the birds occurring in Malaysia seem rather smaller than more northern representatives of the species.

**Porphyrio albus indicus** Horsf.

*Porphyrio Indicus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 194 : Java.

*Porphyrio smaragdinus* Temm., Pl. Col. 421, 1826 : Java.

*Porphyrio bemmeleni* Büttik.,<sup>1</sup> Notes Leyd. Mus. xi, 1889, p. 191 : Lake Toba, North Sumatra.

Distr.—Java; Kangean Islands.

Sumatra; ? Nias Island, West Sumatra.

Borneo.

Genus **FULICA** Linn.

**Fulica atra** Linn.

Coot.

\***Fulica atra atra** Linn.<sup>2</sup>

*Fulica atra* Linn., Syst. Nat. 10th ed. 1758, p. 152 : Sweden.

*Fulica lugubris* S. Müll., Verh. Nat. Gesch. Land en Volk. 1847, p. 454 : Java.

Distr.—Sumatra.

Java.

Family **HELIORNITHIDÆ**.

Genus **HELIOPAIS** Sharpe.

**Heliopais personata** (Gray).

Masked Finfoot

*Podica personata* Gray, Proc. Zool. Soc. 1848, p. 90 : Malacca.

Distr.—Malay Peninsula (including island of Koh Pennan in Bandon Bight).

Sumatra.

Family **GRUIDÆ**.

Genus **GRUS** Pallas.

**Grus antigone** (Linn.).

Sarus Crane.

[**Grus antigone antigone** (Linn.).

*Ardea Antigone* Linn., Syst. Nat. 10th ed. 1758, p. 142 : Further India.

Distr.—Extra-limital.]

**Grus antigone sharpii** Blanford.

*Grus (Antigone) sharpii* Blanford, Bull. B.O.C. v, 1895, p. 7; Burma.

Distr.—Malay Peninsula (not south of Perak).

<sup>1</sup> We do not believe in the occurrence of two *species* of *Porphyrio* in Sumatra, but have seen no topotypes of *bemmeleni* which is perhaps a recognizable northern race.

<sup>2</sup> We have never examined a Malaysian specimen of the coot.

Family JACANIDÆ.

Genus **HYDROPHASIANUS** Wagler.

**Hydrophasianus chirurgus** (Scop.). Pheasant-tailed Jacana.

*Tringa Chirurgus* Scopoli, Del. Flor. et Faun. Insubr. 2, 1786,  
p. 92: Luzon, Philippine Islands.

*Distr.*—Malay States.

Sumatra.<sup>1</sup>

Borneo.

Java.

Genus **METOPIDIUS** Wagler

**Metopidius indicus** (Lath.). Bronze-winged Jacana.

*Parra indica* Latham, Index Orn. ii, 1790, p. 765: India.

*Parra superciliosa* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 194: Java.

*Distr.*—Malay Peninsula.<sup>2</sup>

Sumatra.

Java.

Genus **IREDIPARRA** Mathews.

**Irediparra gallinacea** (Temm.). Lotus-Bird.

\***Irediparra gallinacea gallinacea** (Temm.).

*Parra gallinacea* Temminck, Pl. Col. 464, 1828: Menado, Celebes.

*Distr.*—Borneo (South-east).

Family BURHINIDÆ.

Genus **ESACUS** Lesson.

**Esacus magnirostris** (Vieill.). Stone-Plover.

[**Esacus magnirostris magnirostris** (Vieill.).

*Oedicnemus magnirostris* Vieillot, Nouv. Dict. Hist. Nat. xxiii,  
1818, p. 231: Australia (*Berlepsch*, 1911).

*Distr.*—Extra-limital.]

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<sup>1</sup> We have recently examined a specimen from Kateman, East Sumatra.

<sup>2</sup> Additional locality, Bandon, Peninsular Siam (Mus. Aagaard).

\**Esacus magnirostris scommophorus* (Oberh.).<sup>1</sup>

*Orthorhamphus magnirostris scommophorus* Oberholser, Proc. U.S. Nat. Mus. lv, 1919, p. 133: Wai Island, Tambelan Islands, South China Sea.

*Distr.*—Peninsular Siam; Tambelan Islands.  
Sumatra; Banka; Rhio Archipelago.  
Borneo.  
Java; Bali; Kangean Islands.

## Family ROSTRATULIDÆ.

Genus **ROSTRATULA** Vieillot.

**Rostratula benghalensis** (Linn.). Painted Snipe.

**Rostratula benghalensis benghalensis** (Linn.).

*Rallus benghalensis* Linn., Syst. Nat. 10th ed. 1758, p. 153: Asia.

*Rhynchæa orientalis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 193: Java.

*Distr.*—Malay States.

Sumatra.

Borneo.

Java.

## Family CHARADRIIDÆ.

Genus **HOPLOPTERUS** Bonaparte.

**Hoplopterus spinosus** (Linn.). Spur-winged Plover.

[**Hoplopterus spinosus spinosus** (Linn.).

*Charadrius spinosus* Linn., Syst. Nat. 10th ed. 1758, p. 151: Egypt.

*Distr.*—Extra-limital.]

**Hoplopterus spinosus duvaucelii** (Less.).

*Charadrius Duvaucelii* Lesson, Dict. Sci. Nat. Hist. ed. Levr. xlii, 1826, p. 38: Calcutta.

*Distr.*—Peninsular Siam.

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<sup>1</sup> There are also visual records from the Anamba Islands; Simalur, Babi Island and the Banjak Islands, West Sumatra; and the North Bornean Islands. Oberholser and Mathews think that extra-limital specimens differ from the Australian race: Mrs. Meinertzhagen and Stuart Baker lump them all but consider that the Tambelan and Andaman birds may possibly be separated as *scommophorus*. This latter action is, *prima facie*, inadmissible. We have not seen *scommophorus* and use the name for all Malaysian birds.

Genus **XIPHIDIOPTERUS** Reichenbach.

**Xiphidiopterus tricolor** (Horsf.). Black-thighed Wattled Lapwing.

*Vanellus tricolor* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 186 : Java.

*Vanellus cucullatus* Temm., Pl. Col. 1830, pl. 505 : Java.

*Distr.*—Java.

Sumatra.

Genus **LOBIVANELLUS**<sup>1</sup> G. R. Gray.

**Lobivanellus indicus** (Bodd.). Wattled Lapwing.

[**Lobivanellus indicus indicus** (Bodd.).

*Tringa Indica* Boddaert, Tabl. Planch. Enlum. 1783, p. 50 : Goa, India.

*Distr.*—Extra-limital.]

**Lobivanellus indicus atronuchalis** Jerd.

*Lobivanellus atronuchalis* "Blyth" Jerdon, Birds of India, iii, 1864, p. 648 : Burma.

*Distr.*—Malay Peninsula.

? Sumatra.<sup>2</sup>

Genus **SQUATAROLA** Cuvier.

**Squatarola squatarola** (Linn.). Grey Plover.

[**Squatarola squatarola squatarola** (Linn.).

*Tringa Squatarola* Linn., Syst. Nat. 10th ed. 1758, p. 149 : Sweden.

*Distr.*—Extra-limital.]

**Squatarola squatarola australis** Reich.

*Squatarola helvetica australis* Reichenbach, Novit. Sys. Av., No. v. 1851, p. 3 : Australia.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo; North Natuna Islands.

Java.

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<sup>1</sup> Peters (1934) mentions *Microsarcops cinereus* (Blyth) from the Malay States, but we know of no reliable record from our area.

<sup>2</sup> The presence of this species in Sumatra needs confirmation.

Genus **CHARADRIUS** Linn.

**Charadrius apricarius** Linn.

Golden Plover.

[*Charadrius apricarius apricarius* Linn.

*Charadrius apricarius* Linn., Syst. Nat. 10th ed. 1758, p. 150 : Lapland.

*Distr.*—Extra-limital.]

**Charadrius apricarius fulvus** Gmel.

*Charadrius fulvus* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 687 : Tahiti.

*Distr.*—Malay Peninsula; Anamba Islands; Tambelan Islands.

Sumatra; Banka; West Sumatran Islands of Simalur, Nias, Batu Islands; Mentawi Group.

Borneo; Natuna Islands; Karimata Islands.

Java; Bali; Kangean Islands; Christmas Island.

**Charadrius leschenaultii** Less.

Large Sand-Plover.

**Charadrius leschenaultii leschenaultii** Less.

*Charadrius Leschenaultii* Lesson, Dict. Sci. Nat. ed. Levr., xlii, 1826, p. 36 : India.

*Distr.*—Malay States; Anamba Islands.

Sumatra; Banka; West Sumatran Islands of Simalur, Nias and Mentawi Group.

Borneo; North Natuna Islands.

Java; Bali; Kangean Islands.

**Charadrius mongolus** Pallas.

Small Sand-Plover.

**Charadrius mongolus mongolus** Pall.<sup>1</sup>

*Charadrius mongolus* Pallas, Reise Prov. Russ. Reichs iii, 1776, p. 700 : Siberia.

*Distr.*—North Bornean Islands of Banguay and Balambangan. Java.

**Charadrius mongolus atrifrons** Wagl.

*Charadrius atrifrons* Wagler, Isis, 1829, col. 650 : Bengal.

*Charadrius sanguineus* Less., Dict. Sci. Nat., ed. Levr. xlii, 1826 : Java.

*Charadrius cirrhepidesmos* Wagl., Syst. Av., Charadr. sp. 18, 1827 : Java.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago.

Borneo; North Natuna Islands.

Java.

<sup>1</sup> Within Malaysian limits we have only seen undoubted *C. m. mongolus* from Balambangan Island: one from Banguay Island also has the wing rather long for *C. m. atrifrons*.



**Charadrius asiaticus** Pall. Eastern Dotterel.

[**Charadrius asiaticus asiaticus** Pall.

*Charadrius asiaticus* Pallas, Reise Prov. Russ. Reichs, ii, 1773, p. 715: South Tartary Steppes.

*Distr.*—Extra-limital.]

**Charadrius asiaticus veredus** Gould.

*Charadrius veredus* Gould, Proc. Zool. Soc. 1848, p. 38: North Australia.

*Distr.*—Malay States.

Borneo; North Natuna Islands.

Java.

**Charadrius dubius** Scop. Little Ringed Plover.

**Charadrius dubius curonicus** Gmel.<sup>1</sup>

*Charadrius curonicus* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 692: Curonia = Baltic Prov. of Russia.

*Charadrius pusillus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 187: Java.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Nias Island, West Sumatra.

Borneo.

Java; Kangean Islands.

**Charadrius dubius jerdoni** (Legge).

*Aegialitis jerdoni* Legge, Proc. Zool. Soc. 1880, p. 29: Ceylon.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Charadrius alexandrinus**<sup>2</sup> Linn. Kentish Plover.

**Charadrius alexandrinus alexandrinus** Linn.

*Charadrius alexandrinus* Linn., Syst. Nat. 10th ed. 1758, p. 150: Egypt.

*Distr.*—Malay Peninsula.

Borneo; North Natuna Islands.

**Charadrius alexandrinus dealbatus** (Swinh.).

*Aegialitis dealbatus* Swinhoe, Proc. Zool. Soc. 1870, p. 138: Hainan.

*Distr.*—Malay States.

Sumatra.

Borneo.

<sup>1</sup> The typical race has been recorded from Mergui and may therefore occur in Malaysia.

<sup>2</sup> Revision: Neum., Nov. Zool. xxxv, 1929, p. 212.

**Charadrius alexandrinus seebohmi** Hart. and Jackson.

*Charadrius alexandrinus seebohmi* Hartert and Jackson, Ibis, 1915, p. 529: nom. nov. for *C. cantianus minutus* Seeb. not Pallas ("Southern shores of Red Sea, and island of Ceylon").

*Distr.*—Java.<sup>1</sup>

**Charadrius peronii** Schleg.

Malay Sand-Plover.

*Charadrius peronii* Schlegel, Mus. Pays-Bas, 1865, Cursores, p. 33: Borneo (Hartert, 1902).

*Distr.*—Malay Peninsula; Tioman Archipelago.

Sumatra; Rhio Archipelago.

Borneo; Labuan; North Bornean Islands of Mangalum, Tiga and Balambangan.

Java; Bali; Kangean Islands.

### Genus **HIMANTOPUS** Brisson.

**Himantopus himantopus** (Linn.).

Black-winged Stilt.

**Himantopus himantopus himantopus** (Linn.).<sup>2</sup>

*Charadrius Himantopus* Linn., Syst. Nat. 10th ed. 1758, p. 151: Southern Europe.

*Distr.*—Malay States.

Borneo.

**Himantopus himantopus leucocephalus** Gould.

*Himantopus leucocephalus* Gould, Synops. Birds Austr. pt. 2, 1837, pl. 34: New South Wales.

*Distr.*—Borneo.<sup>3</sup>

Java.

## Family **SCOLOPACIDÆ**.

### Genus **NUMENIUS** Brisson.

**Numenius arquata** (Linn.).

Curlew.

[**Numenius arquata arquata** (Linn.).

*Scolopax Arquata* Linn., Syst. Nat. 10th ed. 1758, p. 145: Sweden.

*Distr.*—Extra-limital.]

<sup>1</sup> Two specimens (Feb., May). Wings 100–103 mm. "Breeding in Java" (fide the collector). Not *C. ruficapillus*.

<sup>2</sup> Has been recorded from Borneo by Blasius (1884) but we have not seen the paper. The identification needs confirmation (? *leucocephalus*).

<sup>3</sup> We do not admit the locality "Sumatra" for this form. The Sunda Islands bird is, of course, *timorensis* Mathews if this race is good.

**Numenius arquata orientalis** Brehm.<sup>1</sup>

*Numenius orientalis* C. L. Brehm, Handb. Naturg. Vög. Deutschl. 1831, p. 610 : East Indies.

*Numenius nasicus* Temm., Man. d'Orn. 2nd ed. iv, 1840, p. 393 : Borneo and Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banjak Islands, West Sumatra. Borneo.

Java.

**Numenius madagascariensis** (Linn.).<sup>2</sup> Australian Curlew.

*Scolopax madagascariensis* Linn., Syst. Nat. 12th ed. i, 1766, p. 242 : Madagascar error = Macassar, Celebes.

*Distr.*—Sumatra; Rhio Archipelago.

Borneo.

Java.

**Numenius phaeopus** (Linn.).

Whimbrel.

[*Numenius phaeopus phaeopus* (Linn.).

*Scolopax Phaeopus* Linn., Syst. Nat. 10th ed. 1758, p. 146 : Sweden.

*Distr.*—Extra-limital.]

**Numenius phaeopus variegatus** (Scop.).<sup>3</sup>

*Tantalus variegatus* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 92 : Luzon, Philippine Islands.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton; Simalur Island, Batu Islands and Mentawi Islands, West Sumatra.

Borneo; North Natuna Islands.

Java; Bali (*vis. rec.*); Kangean Islands.

Christmas Island.

**Numenius minutus** Gould.

*Numenius minutus* Gould, Proc. Zool. Soc. for 1840, 1841, p. 176 : New South Wales.

*Distr.*—Borneo.<sup>4</sup>

?Java.

<sup>1</sup> Replaces *N. lineatus* Cuv. (nom. nud.).

<sup>2</sup> Replaces *Numenius cyanopus*.

<sup>3</sup> A few specimens from the Malay Peninsula seem exactly like typical *phaeopus*; many others are true *variegatus*; others again seem intermediate.

<sup>4</sup> Chasen and Kloss, Journ. Malay Branch Roy. Asiat. Soc. vi, pt. 3, 1928, p. 68. Meyer and Wieglesworth include Java in the range, apparently on the authority of von Schierbrand, but the record needs confirmation: it is omitted by Bartels and Stresemann in their list of Java birds.

Genus **LIMOSA** Brisson.**Limosa limosa** (Linn.). Black-tailed Godwit.[**Limosa limosa limosa** (Linn.).*Scolopax Limosa* Linn., Syst. Nat. 10th ed. 1758, p. 147: Sweden.*Distr.*—Extra-limital.]**Limosa limosa melanuroides** Gould.*Limosa melanuroides* Gould, Proc. Zool. Soc. 1846, p. 84: Port Essington, Northern Territory, Australia.*Distr.*—Malay States.

Sumatra.

Borneo.

Java.

**Limosa lapponica** (Linn.). Bar-tailed Godwit.[**Limosa lapponica lapponica** (Linn.).*Scolopax lapponica* Linn., Syst. Nat. 10th ed. 1758, p. 147: Lapland.*Distr.*—Extra-limital.]**Limosa lapponica baueri** Naum.*Limosa Baueri* Naumann, Naturg. Vög. Deutschl. viii, 1836, p. 429: New Holland=Victoria.*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java.

Genus **PHALAROPUS** Brisson.**Phalaropus lobatus** (Linn.). Red-necked Phalarope.*Tringa tobata* (typ. err.) Linn., Syst. Nat. 10th ed. 1758, p. 148: Hudson Bay, North America.*Distr.*—Borneo.Genus **SCOLOPAX** Linn.**Scolopax rusticola** Linn. Woodcock.**Scolopax rusticola rusticola** Linn.*Scolopax Rusticola* Linn., Syst. Nat. 10th ed. 1758, p. 145: Sweden.*Distr.*—Malay States.<sup>1</sup>**Scolopax saturata** Horsf. Horsfield's Woodcock.**Scolopax saturata saturata** Horsf.*Scolopax saturata* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 191: Java.*Distr.*—Java.

Sumatra.

<sup>1</sup> There is a dubious record from the Cocos-Keeling Islands.

SCOLOPACIDÆ.

Genus **CAPELLA** Frenzel.

**Capella stenura** (Bp.). Pintail Snipe.

*Scolopax stenura* "Kuhl" Bonaparte, Ann. Stor. Nat. Bologna, iv, 1830, p. 335: Sunda Islands.

*Scolopax pectinicauda* Peale, U.S. Expl. Exped. Birds, 1848, p. 227: Singapore.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Banka; West Sumatran Islands of Simalur, Nias and Mentawi Group; Billiton.

Borneo.

Java; Bali; Karimon-Java Islands.

Christmas Island.

**Capella megala** (Swinh.). Swinhoe's Snipe.

*Gallinago megala* Swinhoe, Ibis, 1861, p. 343: Pekin.

*Distr.*—Malay States.

Borneo.

Java; Bali.

**Capella gallinago** (Linn.). Common or Fantail Snipe.

**Capella gallinago gallinago** (Linn.).

*Scolopax Gallinago* Linn., Syst. Nat. 10th ed. 1758, p. 147: Sweden.

*Distr.*—Malay Peninsula.<sup>1</sup>

Sumatra.

Borneo.

Java; Cocos-Keeling Islands.

Genus **LIMNODROMUS** Wied.

**Limnodromus griseus** (Gmel.). Snipe-billed Godwit.

[**Limnodromus griseus griseus** (Gmel.).

*Scolopax grisea* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 658: Coast near New York.

*Distr.*—Extra-limital.]

**Limnodromus griseus semipalmatus** (Blyth).

*Macrorhamphus semipalmatus* "Jerdon" Blyth, Journ. As. Soc. Bengal, xvii, 1848, i, p. 252: near Calcutta.

*Distr.*—Malay Peninsula.

Sumatra.<sup>2</sup>

Borneo.

Java.

<sup>1</sup> We have one or two pale birds from the Malay Peninsula which may be *raddei* Buturlin.

<sup>2</sup> "Sumatra" is here given on the authority of a manuscript note left by Robinson.

Genus **ARENARIA** Brisson.

**Arenaria interpres** (Linn.). Turnstone.

**Arenaria interpres interpres** (Linn.).

*Tringa Interpres* Linn., Syst. Nat. 10th ed. 1758, p. 148: Sweden.

*Distr.*—Malay Peninsula.

Sumatra; Banka; Simalur Island and Mentawi Islands, West Sumatra.

Borneo; North Natuna Islands.

Java; Bali.

Genus **CALIDRIS** Merrem.

**Calidris canutus** (Linn.). Knot.

**Calidris canutus canutus** (Linn.).<sup>1</sup>

*Tringa Canutus* Linn., Syst. Nat. 10th ed. 1758, p. 149: Sweden.

*Distr.*—Banka Island.

North Natuna Islands.

Java.

**Calidris tenuirostris** (Horsf.).<sup>2</sup> Great Knot

*Totanus tenuirostris* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 192: Java.

*Distr.*—Malay States.

Borneo; North Natuna Islands.

Java.

Genus **CROCETHIA** Billberg.

**Crocethia alba** (Pall.). Sanderling.

*Tringa alba* Pallas, Vroeg's Cat. Coll., Adumb. 1764, p. 7: Coast of North Sea, Holland.

*Distr.*—Malay States.

Borneo.

Java.

Christmas Island.

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<sup>1</sup> *C. c. rogersi* (Maths.) if that form is really distinct.

<sup>2</sup> The occurrence of this species in the east of Sumatra is almost certain but we cannot trace a record from the island.

Genus **LIMICOLA** Koch.

**Limicola falcinellus** (Pont.). Broad-billed Sandpiper.

[**Limicola falcinellus falcinellus** (Pont.).

*Scolopax Falcinellus* Pontoppidan, Danske Atlas, 1763, p. 623 : Denmark.

*Distr.*—Extra-limital.]

**Limicola falcinellus sibirica** Dress.\*

*Limicola sibirica* Dresser, Proc. Zool. Soc. 1876, p. 674 : Siberia and China.

*Distr.*—Malay Peninsula.

Sumatra.

Java.

Genus **PHILOMACHUS** Merrem.

**Philomachus pugnax** (Linn.). Ruff (male); Reeve (female).

*Tringa Pugnax* Linn., Syst. Nat. 10th ed. 1758, p. 148 : Sweden.

*Distr.*—Malay States.

Borneo.

Genus **EROLIA** Vieillot.

**Erolia ruficollis** (Pall.). Red-necked Stint.

*Trynga ruficollis* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 700 : South Transbaikalia.

*Totanus damacensis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 192 : Java.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Simalur Island, West Sumatra.

Borneo; North Natuna Islands.

Java.

Christmas Island.

**Erolia minutilla** (Vieill.). Long-toed Stint.

**Erolia minutilla minutilla** (Vieill.).

[*Tringa minutilla* Vieillot, Nouv. Dict. Hist. Nat. xxxiv, 1819, p. 446 : North America.]

*Distr.*—Extra-limital.

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\* We can trace no record for Borneo although the species no doubt occurs there.

**Erolia minutilla subminuta** (Middend.).

*Tringa subminuta* Middendorff, Reise Nord. und Ost. Siberien, ii, 1853, p. 222 : Siberia.

*Distr.*—Malay Peninsula.<sup>1</sup>

Banka Island.

Borneo.

Java.

**Erolia temminckii** (Leisler).

Temminck's Stint.

*Tringa temminckii* Leisler, Nacht. zu Bechst. Nat. Deutsch. 1812, p. 63 : Germany.

*Distr.*—Malay States.

Borneo.<sup>2</sup>

**\*Erolia acuminata** (Horsf.).

Siberian Pectoral Sandpiper.

*Totanus acuminatus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 192 : Java.

*Distr.*—Java.

**Erolia testacea** (Pall.).

Curlew-Sandpiper.

*Scolopax testacea* Pallas, in Vroeg's Cat. Adumbr. 1764, p. 5 : Holland.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java.

**Erolia alpina** (Linn.).

Dunlin.

**[Erolia alpina alpina** (Linn.).

*Tringa alpina* Linn., Syst. Nat. 10th. ed. 1758, p. 149 : Lapland.

*Distr.*—Extra-limital.]

**Erolia alpina sakhalina** (Vieill.).<sup>3</sup>

*Scolopax sakhalina* Vieillot, Nouv. Dict. Hist. Nat. iii, 1816, p. 359 : Russia.

*Distr.*—Borneo.

Java.

<sup>1</sup> This species is of course tolerably certain to occur in Sumatra but we cannot find a record : it is scarce in the Malay Peninsula but has been taken on an island in the Straits of Malacca.

<sup>2</sup> Seebohm and Vorderman both give "Borneo" for this species apparently on the strength of a specimen in the Leyden Museum collected by Schwaner. Vorderman also gives "Java" which is not accepted by Bartels and Stresemann.

<sup>3</sup> At this distant date Schlegel's records (1864) need confirmation as to locality. The species has not since been recorded from Malaysia and old specimens labelled as "*alpina*" in the Raffles Museum from the Natuna Islands are *Erolia testacea*.



SCOLOPACIDÆ.

Genus **XENUS** Kaup.

**Xenus cinereus** (Güld.). Avocet-Sandpiper.

*Scolopax cinerea* GÜLDENSTADT, Nov. Comm. Petrop. xix, 1774, p. 473 : Shores of Caspian Sea.

*Totanus javanicus* HORST., Trans. Linn. Soc. xiii, 1821, p. 193 : Java.

*Scolopax sumatrana* RAFFLES, Trans. Linn. Soc. xiii, 1822, p. 327 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java.

Genus **TRINGA** Linn.

**Tringa totanus** (Linn.). Redshank.

**Tringa totanus totanus** (Linn.).

*Scolopax Totanus* LINN., Syst. Nat. 10th ed. 1758, p. 145 : Sweden.

*Distr.*—Malay Peninsula; Anamba Islands.

North Natuna Islands.

**Tringa totanus eurhinus** (Oberh.).

*Totanus totanus eurhinus* OBERHOLSER, Proc. U.S. Nat. Mus. xxii, 1900, p. 207 : Ladak.

*Distr.*—Malay Peninsula; Tambelan Islands.

Sumatra; Simalur Island, West Sumatra.

Borneo; North Natuna Islands.

Java; Bawean Island.

**Tringa stagnatilis** (Bechst.). Marsh Sandpiper.

*Totanus stagnatilis* BECHSTEIN, Orn. Taschenb. 1803, p. 292 : Germany.

*Distr.*—Malay States.

Borneo.

Java.

**Tringa ochropus** Linn. Green Sandpiper.

*Tringa Ochropus* LINN., Syst. Nat. 10th ed. 1758, p. 149 : Sweden.

*Distr.*—Borneo.<sup>1</sup>

Karimon-Java Islands.

**Tringa incana** (Gmel.). Grey-rumped Tattler.

[*Tringa incana incana* Gmel.

*Scolopax incana* GMELIN, Syst. Nat. i, pt. 2, 1789, p. 658 : Eimeo and Palmerston Islands, Pacific Ocean.

*Distr.*—Extra-limital.]

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<sup>1</sup> We have seen a recent specimen from Sarawak.

**Tringa incana brevipes** (Vieill.).

*Totanus brevipes* Vieillot, Nouv. Dict. Hist. Nat. vi, 1816, p. 410 : Timor.

*Distr.*—Malay States.

Sumatra.

Borneo; North Natuna Islands.

Java; Kangean Islands; Thousand Islands, Java Sea.

Christmas Island.

**Tringa hypoleucos** Linn.

Common Sandpiper.

*Tringa Hypoleucos* Linn., Syst. Nat. 10th ed. 1758, p. 149 : Sweden.

*Distr.*—Malay Peninsula; Anamba Islands; Tambelan Islands.

Sumatra; Rhio Archipelago; Banka; West Sumatran Islands of Simalur, Nias and Mentawi group; Billiton.

Borneo; Natuna Islands; Karimata Islands.

Java; Bali; Kangean Islands; Bawean Island; Karimon-Java Islands.

Christmas Island.

**Tringa guttifer** (Nord.).

Armstrong's Sandpiper.

*Totanus guttifer* Nordmann, in Erman's Reise, Naturh. Atl. 1835, p. 17 : near Ochotsk.

*Distr.*—Malay States.

Borneo.

**Tringa nebularia** (Gunn.).

Greenshank.

*Scolopax nebularia* Gunnerus, in Leem, Beskr. Finm. Lapp. 1767, p. 251 : Norway.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java.

Christmas Island; Cocos-Keeling Islands.

**Tringa glareola** Linn.

Wood Sandpiper.

*Tringa Glareola* Linn., Syst. Nat. 10th ed. 1758, p. 149 : Sweden.

*Totanus affinis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 191 : Java.

*Totanus kuhlii* Brehm, Handb. Naturg. Vög. Deutschl. 1831, p. 641 : Java.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra.

Borneo; North Natuna Islands.

Java; Bali.

## Family GLAREOLIDÆ.

Genus **GLAREOLA** Brisson.

**Glareola pratincola** (Linn.). Collared Pratincole.

[**Glareola pratincola pratincola** (Linn.).

*Hirundo Pratincola* Linn., Syst. Nat. 12th ed. i, 1766, p. 145 : Austria.

*Distr.*—Extra-limital.]

**Glareola pratincola maldivarum** Forst.

*Glareola (Pratincola) Maldivarum* J. R. Forster, Faun. Indica, 1795, p. 11 : Maldiv Islands.

*Glareola orientalis* Leach, Trans. Linn. Soc. xiii, 1821, p. 132 : Java.

*Distr.*—Malay States; Anamba Islands.

Sumatra; Banka; West Sumatran islands of Nias and Mentawi Group; Billiton.

Borneo; Natuna Islands.

Java; Thousand Islands, Java Sea; Karimon-Java Islands.

Christmas Island.

**Glareola isabella** (Vieill.). Long-legged Pratincole.

*Glareola isabella* Vieillot, Analyse, 1816, p. 69 : Australia.

*Distr.*—Borneo; Billiton.

Java.<sup>1</sup>

## Family DROMADIDÆ.

Genus **DROMAS** Paykull.

**Dromas ardeola** Payk. Crab-Plover.

*Dromas Ardeola* Paykull, Konge. Vet. Akad. Handl. Stockholm, xxvi, 1805, p. 182 : India.

*Distr.*—Malay States.

## Family LARIDÆ.

Genus **CHLIDONIAS** Rafinesque.

**Chlidonias leucoptera** (Temm.). White-winged Black Tern.

[**Chlidonias leucoptera leucoptera** (Temm.).

*Sterna leucoptera* Temminck, Man. d'Orn. 1815, p. 483 : Mediterranean Sea.

*Distr.*—Extra-limital.]

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<sup>1</sup> The evidence for the occurrence of this species in Java is not good but it is very likely to occur there.

**Chlidonias leucoptera grisea** (Horsf.).<sup>1</sup>

*Sterna grisea* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 199: Java.

Distr.—Malay Peninsula (West Coast).

Sumatra (Straits of Malacca).

Borneo.

Java.

**Chlidonias hybrida** (Pall.).

Whiskered Tern.

[*Chlidonias hybrida hybrida* (Pall.).

*Sterna hybrida* Pallas, Zoogr. Rosso-Asiat. ii, 1811, p. 338: Russia.

Distr.—Extra-limital.]

**Chlidonias hybrida javanica** (Horsf.).<sup>2</sup>

*Sterna javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 198:

Java.

Distr.—Borneo.

Java.

Genus **GELOCHELIDON** Brehm.

**Gelochelidon nilotica** (Gmel.).

Gull-billed Tern.

[*Gelochelidon nilotica nilotica* (Gmel.).

*Sterna nilotica* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 606: Egypt.

Distr.—Extra-limital.]

**Gelochelidon nilotica affinis** (Horsf.).

*Sterna affinis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 199: Java.

Distr.—Malay Peninsula.

Sumatra.

Borneo; Natuna Islands.

Java.

Genus **STERNA** Linn.

**Sterna hirundo** Linn.

Common Tern.

[*Sterna hirundo hirundo* Linn.

*Sterna Hirundo* Linn., Syst. Nat. 10th ed. 1758, p. 137: Sweden.

Distr.—Extra-limital.]

**Sterna hirundo longipennis** Nordm.<sup>3</sup>

Nordmann's Tern.

*Sterna longipennis* Nordmann in Erman's Verz. Thieren u.

Pflanzen, 1835, p. 17: Ochotsk, Siberia.

Distr.—Malay Peninsula (both coasts).

Sumatra.

Java; Borneo.

<sup>1</sup> We have only recognized an eastern race for this tern after much hesitation.

<sup>2</sup> "*H. hybrida*" has been recorded from Nias by Rosenberg.

<sup>3</sup> Records of *fluvialis* (= *hirundo*), and *tibetana* from Malaysia all seem to apply to this form: a specimen has been examined from Sarawak.

**Sterna dougallii** Mont.

Roseate Tern.

[**Sterna dougallii dougallii** Mont.

*Sterna Dougallii* Montagu, Ornith. Dict. Suppl. 1813, no pagination : Scotland.

*Distr.*—Extra-limital.]

**Sterna dougallii bangsi** Math.<sup>1</sup>

*Sterna dougallii bangsi* Mathews, Birds Austr. ii, 1912, p. 364 : Foochow, China.

*Distr.*—Malay Peninsula (both coasts).

Sumatra.

Borneo.

Java.

**Sterna bengalensis** Less.

Smaller Crested Tern.

**Sterna bengalensis bengalensis** Less.<sup>2</sup>

*Sterna bengalensis* Lesson, Traité d'Orn. 1831, p. 621 : Coasts of India.

*Sterna media* Horsf. (nec Vieill. 1820) Trans. Linn. Soc. xiii, 1821, p. 199 : Java.

*Distr.*—Malay Peninsula (Straits of Malacca).

Sumatra.

Java.

**Sterna bergii** Licht.<sup>3</sup>

Large Crested Tern.

[**Sterna bergii bergii** Licht.

*Sterna bergii* Lichtenstein, Verz. Doubl. Zool. Mus. Berlin, 1823, p. 80 : Cape of Good Hope.

*Distr.*—Extra-limital.]

**Sterna bergii edwardsi** (Math.).

*Thalasseus bergii edwardsi* Mathews, Birds Austr. ii, 1912, p. 347 : Ceylon.

*Distr.*—Malay Peninsula (Straits of Malacca).

? Sumatra.<sup>4</sup>

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<sup>1</sup> Occurring as it does in the South China, Sulu and Java Seas this tern must be included in the avifauna of Borneo although we know of no actual record from that island. Specimens from Luzon and Palawan also appear to be *bangsi* (fide H. C. Robinson in litt.). *S. d. korustes* Hume (Andamans), is said to visit the Mergui Archipelago and may therefore occur in the Straits of Malacca, but our few specimens from this latter locality seem to be *bangsi*.

<sup>2</sup> Although recorded from Celebes this tern is not known from Borneo, or the Philippines, but as it is found in Java the south of Borneo is also possibly within the range.

<sup>3</sup> Revision : Oberh., Proc. U.S. Nat. Mus. xlix, 1915, p. 515.

<sup>4</sup> There is no definite record for Sumatra, but it is almost certain that this race must occur within sight of the coast.

Rosenberg records a form of this species from Nias : it may be *edwardsi* or *cristatus*.

**Sterna bergii cristata** Steph.

*Sterna cristatus* Stephens, Gen. Zool. xiii, 1826, p. 146: China (Mathews, 1912).

*Distr.*—Malay Peninsula (East Coast south to Singapore).

Sumatra; Rhio Archipelago; Anamba Islands.

Borneo; Natuna Islands.

Java; Thousand Islands, Java Sea; Bali; Kangean Islands; Karimon-Java Islands.

**Sterna bergii halodrama** (Oberh.).<sup>1</sup>

*Thalasseus bergii halodramus* Oberholser, Proc. U.S. Nat. Mus. xlix, 1915, p. 522: Pata Island, near Sulu Island, South Philippine Islands.

*Distr.*—?Borneo (North-west).

**Sterna anæthetus** Scop.

Panayan or Bridled Tern.

**Sterna anæthetus anæthetus** Scop.

*Sterna Anæthetus* Scopoli, Del. Flor. et Faun. Insubr. 1786, p. 92: Panay Island, Philippine Islands.

*Distr.*—Malay Peninsula (both coasts); Anamba Islands; Tambelan Islands.

Sumatra; Taya Island, Lingga Archipelago; Billiton.

Borneo; Natuna Islands.

Java.

**Sterna anæthetus antarctica** Less.

*Sterna antarctica* Lesson, Traité d'Orn. 1831, p. 631: Mauritius.

*Distr.*—Cocos-Keeling Islands.

**Sterna fuscata** Linn.

Sooty Tern.

**Sterna fuscata fuscata** Linn.

[*Sterna fuscata* Linn., Syst. Nat. 12th. ed. i, 1766, p. 228: Santo Domingo, West Indies.

*Distr.*—Extra-limital.]

**Sterna fuscata nubilosa** Sparrm.<sup>2</sup>

*Sterna nubilosa* Sparrman, Mus. Carls. fasc. 3, 1788, No. 63 "India Orientalis".

*Sterna infuscata* Licht., Verz. Doubl. Zool. Mus. Berlin, 1823, p. 81: East Indies.

*Distr.*—Borneo.

Java.

<sup>1</sup> We have a skin from Baram, Sarawak which is remarkably paler than any other bird in the collection: it is tentatively referred to *halodramus* which according to its describer occurs almost within sight of the north-east coast of Borneo.

<sup>2</sup> The occurrence of this species in Sumatra, although recorded by Vorderman needs confirmation.

***Sterna albifrons* Pall.<sup>1</sup>**

Little Tern or Ternlet.

[*Sterna albifrons albifrons* Pall.

*Sterna albifrons* Pallas in Vroeg's Adumb. 1764, p. 6: Holland.

*Distr.*—Extra-limital.]

***Sterna albifrons sinensis* Gmel.**

*Sterna sinensis* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 608: China.

*Distr.*—Malay Peninsula (both coasts but the east especially).

Borneo; Natuna Islands.

Java.

?Sumatra (Straits of Malacca).

***Sterna albifrons pusilla* Temm.<sup>2</sup>**

*Sterna pusilla* Temminck, Man. d'Orn., ed. 2, 1840, p. 465: Java.

*Distr.*—Malay Peninsula (Straits of Malacca).<sup>3</sup>

?Sumatra (Straits of Malacca, therefore almost certainly the Sumatran coast).

?Java ("apparently wintering in Java", H. C. Robinson in litt.).

***Sterna albifrons saundersi* Hume.**

*Sterna saundersi* Hume, Stray Feathers, v, 1877, pp. 324—6: Karachi, India.

*Distr.*—Malay Peninsula (Straits of Malacca).

Sumatra.

***Sterna sumatrana* Raffles.**

Black-naped Tern.

***Sterna sumatrana sumatrana* Raffles.<sup>4</sup>**

*Sterna Sumatrana* Raffles, Trans. Linn. Soc. xiii, 1822, p. 329: Sumatra.

*Distr.*—Malay Peninsula (both coasts); Anamba Islands.

Sumatra; Taya Island, Lingga Archipelago; West Sumatran Islands of Nias and Engano.

Borneo; Natuna Islands; Karimata Islands.

Java; Bali; Kangean Islands.

<sup>1</sup> See Baker, Bull. B. O. C. xlix, 1928, p. 37 and Ticehurst, *l.c.* p. 66.

<sup>2</sup> Seems to be a good race, formerly known as *gouldi* Hume (nec Reichb.), but the use of *pusilla* is perhaps not certain for it.

<sup>3</sup> Certain specimens from the Straits of Malacca and North-east Sumatra can be plausibly referred this form.

<sup>4</sup> Probably found throughout Malaysia, along all coasts and on all small islands.

Genus **ANOUS** Stephens.

**Anous stolidus** (Linn.). Noddy.

[**Anous stolidus stolidus** (Linn.).

*Sterna stolidus* Linn., Syst. Nat. 10th ed. 1758, p. 137 : West Indies.

Distr.—Extra-limital.]

**Anous stolidus pileatus** (Scop.).<sup>1</sup>

*Sterna pileata* Scopoli, Del. Flor. et. Faun. Insubr. ii, 1786, p. 92 :  
Philippine Islands.

Distr.—Malay Peninsula (Straits of Malacca); Anamba Islands;  
Tambelan Islands.

Sumatra; Nias Island, West Sumatra.

Borneo; Natuna Islands.

Java; Karimon-Java Islands.

Christmas Island; Cocos-Keeling Islands.

**Anous minutus** Boie. White-capped Noddy.

[**Anous minutus minutus** Boie.

*Anous minutus* Boie, Isis, 1844, col. 188 : Australia.

Distr.—Extra-limital.]

**Anous minutus worcesteri** (McGreg.).

*Micranous worcesteri* McGregor, Phil. Journ. Sci. D. vi, 1911, p.  
183 : Cavilli Island, Sulu Sea.

Distr.—Malay Peninsula (Straits of Malacca).<sup>2</sup>

? Sumatra (Straits of Malacca); Billiton.

Borneo.

Genus **GYGIS** Wagler.

**Gygis alba** (Sparrm.).<sup>3</sup> White Tern.

[**Gygis alba alba** Sparrm.

*Sterna alba* Sparrman, Mus. Carl. i, 1786, no. xi : Ascension Island  
(Mathews, 1927).

Distr.—Extra-limital.]

<sup>1</sup> Rare in Malayan waters near the coasts and apparently also rare on the Javan coasts. Breeds on Barren Island between Singapore and Borneo.

<sup>2</sup> The single specimen on record from Malacca (Maingay) is referred to this form purely on geographical grounds.

<sup>3</sup> This tern is known from the Bay of Bengal, but we doubt if it ever occurs in Malayan seas. Vorderman's Sumatran record is a dubious one and the presence of the bird on the coast of Java needs confirmation.



**Gygis alba monte** Math.

*Gygis alba monte* Mathews, Birds Austr. ii, 1912, p. 443 : Seychelles.

*Distr.*—Sumatra.

Java.

Cocos-Keeling Islands.

### Genus **LARUS** Linn.

**Larus ridibundus** Linn.

Black-headed or Laughing Gull.

**Larus ridibundus ridibundus** Linn.

*Larus ridibundus* Linn., Syst. Nat. 12th. ed. i, 1766, p. 225 : England.

*Distr.*—Singapore Straits.

**\*Larus brunnicephalus** Jerd.

Brown-hooded Gull.

*Larus brunnicephalus* Jerdon, Madr. Journ. Lit. Sci. xii, 1840, p. 225 : India.

*Distr.*—Peninsular Siam.

## Family **PODICIPIDÆ**.

### Genus **PODICEPS** Latham.

**Podiceps ruficollis** (Pall.).

Little Grebe.

[**Podiceps ruficollis ruficollis** (Pall.).

*Colymbus ruficollis* Pallas in Vroeg's Cat. Adumb. 1764, p. 6 : Holland.

*Distr.*—Extra-limital.]

**Podiceps ruficollis philippensis** (Bonn.).

*Colymbus Philippensis* Bonnaterre, Tabl. Encycl. Méth. i, 1790, p. 58 : Philippine Islands.

*Distr.*—Peninsular Siam.

Sumatra.

Borneo.

**\*Podiceps ruficollis vulcanorum** (Rensch).

*Podiceps ruficollis vulcanorum* Rensch, Journ. f. Ornith. 1929, 2, p. 205 : Lombok.

*Distr.*—Java; Bali.

## Family HYDROBATIDÆ.

Genus **OCEANODROMA** Reichenbach.<sup>1</sup>

**Oceanodroma leucorhoa** (Vieill.). Leach's Fork-tail Petrel.

[**Oceanodroma leucorhoa leucorhoa** (Vieill.).

*Procellaria leucorhoa* Vieillot, Nov. Dict. Hist. Nat. xxv, 1818,  
p. 422: Maritime parts of Picardy.

*Distr.*—Extra-limital.]

**Oceanodroma leucorhoa monorhis** (Swinh.). Swinhoe's Petrel.

*Thalassidroma monorhis* Swinhoe, Ibis, 1867, p. 386: near Amoy,  
China.

*Distr.*—Straits of Malacca; South China Sea; Java Sea.

## Family PROCELLARIIDÆ.

Genus **PUFFINUS** Brisson

\***Puffinus leucomelas** (Temm.).<sup>2</sup> White-fronted Shearwater.

*Procellaria leucomelas* Temminck, Pl. Col. 1835, pl. 587: Seas of  
Japan.

*Distr.*—Borneo (North).

## Family PLEGADIDÆ.

Genus **THRESKIORNIS** G. R. Gray.

**Threskiornis æthiopicus** (Lath.). White Ibis.

[**Threskiornis æthiopicus æthiopicus**.

*Tantalus æthiopicus* Latham, Ind. Orn. ii, 1790, p. 706: Ethiopia.

*Distr.*—Extra-limital.]

**Threskiornis æthiopicus melanocephalus** (Lath.).<sup>3</sup>

*Tantalus melanocephalus* Latham, Ind. Orn. ii, 1790, p. 709: India.

*Ibis leucon* Temm., Pl. Col. 481, 1829: Java.

*Distr.*—Malay Peninsula

Sumatra; Batam Island, Rhio Archipelago.

Borneo.

Java.

<sup>1</sup> A white-rumped species, probably a form of *Oceanites oceanicus* (Kuhl), has been observed in the Straits of Malacca.

<sup>2</sup> A form of *Puffinus* is said to breed in the Cocos-Keeling Islands.

<sup>3</sup> Robinson (1927), excludes the species from Borneo and Sumatra, but there are well authenticated specimens from Sarawak in the Kuching Museum. We have seen it on the east coast of Sumatra. Specimens examined from Java.

Genus **PSEUDIBIS** Hodgson.

**Pseudibis papillosa** (Temm.).

Black Ibis.

[**Pseudibis papillosa papillosa** (Temm.).

*Ibis papillosa* Temm., Planch. Col. 304, 1824: India.

*Distr.*—Extra-limital.]

**Pseudibis papillosa davisoni** (Hume).

*Geronticus Davisoni* Hume, Stray Feathers, iii, 1875, p. 300:  
Pakchan, Tenasserim

*Distr.*—Peninsular Siam.  
Borneo.<sup>1</sup>

Genus **THAUMATIBIS** Elliot.

**Thaumatibis gigantea** (Oust.).

Giant Ibis.

*Ibis gigantea* Oustalet, Bull. Soc. Philom. (7) i, 1877, p. 25:  
Cochin China.

*Distr.*—Peninsular Siam.

Genus **PLEGADIS** Kaup.

**\*Plegadis falcinellus** (Linn.).

Glossy Ibis.

[**Plegadis falcinellus falcinellus** (Linn.).

*Tantalus Falcinellus* Linn., Syst. Nat. 12th ed. i, 1766, p. 241:  
Austria.

*Distr.*—Extra-limital.]

**Plegadis falcinellus peregrinus** (Bp.).<sup>2</sup>

*Ibis peregrina* Bonaparte, Consp. Gen. Av. ii, 1855, p. 159: Java.

*Distr.*—Borneo.  
Java.

Family **PLATALEIDÆ**.

Genus **PLATALEA** Linn.

**Platalea leucorodia** (Linn.).

Spoonbill.

[**Platalea leucorodia leucorodia** Linn.

*Platalea Leucorodia* Linn., Syst. Nat., 10th ed. 1758, p. 139:  
Europe.

*Distr.*—Extra-limital.]

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<sup>1</sup> Bornean records of *papillosa* we refer to *davisoni*.

<sup>2</sup> For the present we have referred all Sunda Island birds to the small eastern race but the possibility of migrants from the north (*P. f. falcinellus*) must not be overlooked. We can find no actual record for Sumatra: Dammerman records it with a query from Batam Island in the Rhio Archipelago. *P. f. peregrinus* breeds in Java.

\***Platalea leucorodia regia** Gould.

*Platalea regia* Gould, Syn. Bds. Austr. pt. iv, 1838, App. p. 7: New South Wales.

*Distr.*—Borneo.

Family CICONIIDÆ.

Genus **IBIS** Lacépède.<sup>1</sup>

**Ibis cinereus** (Raffles).

Southern Painted Stork.

*Tantalus cinereus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 327: Bencoolen, Sumatra.

*Tantalus lacteus*, Temm., Pl. Col. 352, 1825: Java.

*Distr.*—Malay Peninsula (north to Selangor).

Sumatra.

Java.

**Ibis leucocephalus** (Penn.).

Painted Stork or Pelican-Ibis.

*Tantalus leucocephalus* Pennant, Ind. Zool. 1769, p. 11, pl. 10: Ceylon.

*Distr.*—Malay Peninsula (south to Selangor).

Genus **DISSOURA** Cabanis.

**Dissoura episcopus** (Bodd.).

White-headed Stork.

**Dissoura episcopus episcopus** (Bodd.).<sup>2</sup>

*Ardea Episcopus* Boddaert, Tabl. Planch. Enlum. 1783, p. 54, 906: Coromandel Coast.

*Dissoura neglecta* Finsch, Orn. Mon. xii, 1904, p. 94: Java.

*Distr.*—Malay Peninsula (north).

Sumatra.

Java; Bali (*vis.*).

**Dissoura stormi** (Blas.).<sup>3</sup>

Storm's Stork.

*Melanopelargus episcopus stormi* W. Blasius, Mitt. Geogr. Ges. Nat. Mus. Lübeck, 1896, p. 120: Pontianak, Borneo.

*Dissura mortoni* O.-Grant, Bull. Brit. Orn. Cl. xiii, 1902, p. 26: Lamag, British North Borneo.

*Distr.*—Malay States (Perak).

Sumatra.

Borneo.

<sup>1</sup> Little is known about the distribution of the species of this genus in the Malay Peninsula.

<sup>2</sup> We cannot separate *D. e. neglecta*.

<sup>3</sup> This species may only be a southern form of *D. episcopus*, but the birds look very different in the flesh and until we know more of their ranges in the Malay Peninsula and Sumatra it seems best to keep them separate.

Genus **XENORHYNCHUS** Bonaparte.**Xenorhynchus asiaticus** (Lath.). Black-necked Stork.**Xenorhynchus asiaticus asiaticus** (Lath.).*Mycteria asiatica* Latham, Ind. Orn. ii, 1790, p. 670: India.*Distr.*—Peninsular Siam.<sup>1</sup>Genus **LEPTOPTILOS**<sup>2</sup> Lesson.**Leptoptilos javanicus** (Horsf.). Lesser Adjutant Bird.*Ciconia javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 188: Java.*Ciconia capillata* Temm., Pl. Col. 312, 1824: Java.*Distr.*—Malay Peninsula.

Sumatra; Billiton.

Borneo.

Java; ? Bali.

Family **ARDEIDÆ**.Genus **ARDEA** Linn.**Ardea purpurea** Linn. Purple Heron.[**Ardea purpurea purpurea** Linn.]*Ardea purpurea* Linn., Syst. Nat. 12th ed. i, 1766, p. 236: France (*Stresemann*, 1920).*Distr.*—Extra-limital.]**Ardea purpurea manillensis** Meyen*Ardea purpurea* var. *manillensis* Meyen, Acta Acad. Leop. Carol. xvi, Suppl., 1834, p. 102: Manila, Philippine Islands.*Distr.*—Malay Peninsula.

Sumatra; West Sumatran islands of Nias and Engano.

Borneo.

Java; Bali; Kangean Islands.

**Ardea sumatrana** Raffles.<sup>3</sup> Dusky-gray Heron.**Ardea sumatrana sumatrana** Raffles.*Ardea Sumatrana* Raffles, Trans. Linn. Soc. xiii, 1822, p. 325: Bencoolen, West Sumatra.*Ardea typhon* Temm., Pl. Col. 475, 1829: Sumatra (*Baker*, 1929).<sup>1</sup> We do not believe in the locality "Penang" (Brit. Mus.) for this species.<sup>2</sup> *Leptoptilos dubius* (Gm.), has also been recorded from Malaysia but we think in error.<sup>3</sup> This is the "*Leptorodius gularis asha*" of Moulton's Bornean list.

ARDEIDÆ.

*Ardea robusta* Bp., Consp. Gen. Av. ii, 1855, p. 110: in syn. *A. typhon*.  
*Typhon Temminckii* Reichenb., Syst. Av. Nat. 1852, p. xvi: new name  
 for *A. typhon*.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Billiton; West Sumatran  
 Islands of Babi, Banjak Islands and Pagi Islands.

Borneo; North Bornean islands of Banguay and Balam-  
 bangan.

Java; Bali; Bawean Island.

***Ardea cinerea* Linn.**

Common Heron.

[*Ardea cinerea cinerea* Linn.

*Ardea cinerea* Linn., Syst. Nat. 10th ed. 1758, p. 143: Sweden.

*Distr.*—Extra-limital.]

***Ardea cinerea rectirostris* Gould.**

*Ardea rectirostris* Gould, Proc. Zool. Soc. 1843, p. 22: New South  
 Wales error=South India.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo<sup>1</sup>.

Java.

Genus **EGRETTA** T. Forster.

***Egretta intermedia* (Wagl.).**

Smaller Egret.

***Egretta intermedia intermedia* (Wagl.).**

*Ardea intermedia* Wagler, Isis, 1829, p. 659: Java.

*Ardea melanopus* Wagl., Isis, 1829, p. 659: Java.

*Distr.*—Malay Peninsula.

Sumatra; Billiton; Nias Island.

Borneo.

Java; Kangean Islands; Thousand Islands.

***Egretta alba* (Linn.).**

Larger Egret.

[*Egretta alba alba* (Linn.).

*Ardea alba* Linn., Syst. Nat. 10th. ed. 1758, p. 144: Europe.

*Distr.*—Extra-limital.]

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<sup>1</sup> We have examined a fresh specimen collected in Sarawak.

**Egretta alba modesta** (Gray).*Ardea modesta* J. E. Gray, Zool. Misc. 1831, p. 19: India.

Distr.—Malay Peninsula.

Sumatra.

Borneo.

Java.

**Egretta eulophotes** (Swinh.).

Chinese Egret.

*Herodias eulophotes* Swinhoe, Ibis, 1860, p. 64: Amoy, China.Distr.—Peninsular Siam.<sup>1</sup>

Sipora, Mentawi Islands, West Sumatra.

Borneo.

Christmas Island.

**Egretta garzetta** (Linn.).

Little Egret.

**Egretta garzetta garzetta** (Linn.).*Ardea Garzetta* Linn., Syst. Nat. 12th ed. i, 1766, p. 237: "Oriente".

Distr.—Malay Peninsula.

Sumatra; Nias Island, West Sumatra.

Borneo.

**Egretta garzetta nigripes** (Temm.).*Ardea nigripes* Temminck, Man. d'Ord. ed. 2, iv, 1840, p. 376: Sunda Islands=Java (*Mathews*, 1927).

Distr.—Java; Bali; Kangean Islands.

Cocos-Keeling Islands.<sup>2</sup>Genus **DEMIGRETTA** Blyth.**Demigretta sacra** (Gmel.).

Reef Heron.

**Demigretta sacra sacra** (Gmel.).*Ardea sacra* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 640: Tahiti.

Distr.—Malay Peninsula; Anamba Islands; Tambelan Islands.

Sumatra; Rhio Archipelago; Lingga Archipelago (Nyamok

Islets), West Sumatran Islands of Simalur, Banjak Islands,

Nias; Mentawi Islands, Engano Billiton.

Borneo; Natuna Islands; Karimata Islands.

Java; Bali; Kangean Islands; Karimon-Java Islands.

Christmas Island; Cocos-Keeling Islands.

<sup>1</sup> See Hume, Stray Feathers, viii, 1879, p. 158, and Sharpe, Cat. Birds Brit. Mus., xxvi, 1898, p. 141.<sup>2</sup> We have associated birds from the above localities (except Java) with *nigripes* purely on geographical grounds: the only specimens we have seen are from the type locality.

Genus **NYCTICORAX**<sup>1</sup> T. Forster.**Nycticorax nycticorax** (Linn.). Night Heron.**Nycticorax nycticorax nycticorax** (Linn.).*Ardea Nycticorax* Linn., Syst. Nat. 10th ed. 1758, p. 142: South Europe.*Distr.*—Malay Peninsula.

Sumatra; Banka; Nias Island, West Sumatra.

Borneo.

Java; Kangean Islands.

**Nycticorax caledonicus** (Gmel.).<sup>2</sup> Australian Night Heron.**[Nycticorax caledonicus caledonicus** (Gmel.).*Ardea caledonica* Gmelin, Syst. Nat. 1, pt. 2, 1789, p. 626: New Caledonia.*Distr.*—Extra-limital.]**Nycticorax caledonicus manillensis** Vig.*Nycticorax Manillensis* Vigors, Proc. Comm. Zool. Soc. 1831, p. 98: Manila, Philippine Islands.*Distr.*—Borneo (north).**\*Nycticorax caledonicus hilli** Math.*Nycticorax caledonicus hilli* Mathews, Nov. Zool. xviii, 1912, p. 233: Parry's Creek, North-west Australia.*Distr.*—Cocos-Keeling Islands.Genus **GOISAKIUS**<sup>3</sup> G. R. Gray.**Goisakius melanolopus** (Raffles). Tiger Bittern.**Goisakius melanolophus melanolophus** (Raffles).*Ardea melanolopha* Raffles, Trans. Linn. Soc. xiii, 1822, p. 326: West Sumatra.*Nycticorax limnophilax* Temm., Pl. Col. 581, 1836: Java.*Distr.*—Malay Peninsula.

Sumatra; Banka.

Borneo.

Java; Thousand Islands.

<sup>1</sup> Revision: Peters, Bost. Soc. Nat. Hist. 39, 1930, p. 263.<sup>2</sup> A form of this bird is said to breed in Java, but no specimens have been examined.<sup>3</sup> Cf. Hach., Ibis 1926, p. 585; Kloss, Ibis, 1927, p. 526.



Genus **BUTORIDES**<sup>1</sup> Blyth.**Butorides striatus** (Linn.). Little Green Heron.[**Butorides striatus striatus** (Linn.).*Ardea striata* Linn., Syst. Nat. 10th ed. 1758, p. 144: Surinam, South America.*Distr.*—Extra-limital.]**Butorides striatus javanicus** (Horsf.).*Ardea javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 190: Java.\**Butorides javanicus carcinophonus* Oberh., Journ. Wash. Acad. Sci. xiv, 1924, p. 294: Alanga Island, Maratua Group, East Borneo.*Butorides javanicus abbotti* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 14: Langkawi Island, Straits of Malacca.*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Nias Island; Billiton.

Borneo; Maratua Islands; Natuna Islands.

Java; Bali; Kangean Islands; Bawean Island.

**Butorides striatus sipora** Chas. and Kl.*Butorides striatus sipora* Chasen and Kloss, Ibis, 1926, p. 277: Sipora Island, West Sumatra.*Distr.*—Sipora and Siberut Islands (Mentawi Islands), West Sumatra.**Butorides striatus amurensis** Schrenck.*Ardea (Butorides) virescens* var *amurensis* Schrenck, Reise Amur Lande, i, pt. 2, 1860, p. 441: Amurland.\**Butorides striatus actophilus* Oberh., Smiths. Misc. Coll. lx, 7, 1912, p. 1: North Pagi Island, West Sumatra.\**Butorides striatus icasopterus* Oberh., Smiths. Misc. Coll. lx, 7, 1912, p. 1: Simalur Island, West Sumatra.*Distr.*<sup>2</sup>—Malay Peninsula.

Borneo; Natuna Islands.

Java.

Christmas Island.

<sup>1</sup> Revisions: Oberh., Proc. U.S. Nat. Mus. xlii, 1912, p. 529; Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 14.<sup>2</sup> There is much difference of opinion concerning the Malaysian races of this heron. A long-winged form visits the sub-region in winter. The wing-range of specimens examined is 186—202 mm. which is nearer to that given for *connectens* Stres., Orn. Mon. xxxviii, 1930, p. 48 (Kwangsi) than to true *amurensis*.

Genus **ARDEOLA** Boie.**Ardeola ralloides** (Scop.). Pond-Heron.[**Ardeola ralloides ralloides** (Scop.).*Ardea ralloides* Scopoli, Ann. i, Hist. Nat. 1769, p. 88: Krain.

Distr.—Extra-limital.]

**Ardeola ralloides bacchus** (Bp.).<sup>1</sup>*Buphus bacchus*, Bonaparte, Consp. Gen. Av. ii, 1855, p. 127:  
Malay Peninsula.? *Cancroma leucoptera* Bodd., Tabl. Pl. Enl. 1783, p. 54: Malacca.? *Ardea malaccensis* Gmel., Syst. Nat. i, 2, 1789, p. 643: Malacca.

Distr.—Malay Peninsula.

Borneo; Natuna Islands.

**Ardeola ralloides speciosa** (Horsf.).*Ardea speciosa* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 189:  
Java.*Buphus pseudo-ralloides* Brehm, Naumannia, 1855, p. 290: "India  
orientali" = Java.

Distr.—Borneo.

Java; Bali; Thousand Islands; Karimon-Java Islands;  
Kangean Islands.<sup>2</sup>**Ardeola ibis** (Linn.). Cattle Egret.[**Ardeola ibis ibis** (Linn.).*Ardea Ibis* Linn., Syst. Nat. 10th ed. 1758, p. 144: Egypt.

Distr.—Extra-limital.]

**Ardeola ibis coromanda** (Bodd.).*Cancroma Coromanda* Boddaert, Tabl. Pl. Enlum. 1783, p. 54:  
Coromandel Coast.*Ardea affinis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 189: Java.

Distr.—Malay Peninsula; Anamba Islands.

Sumatra.

Borneo.

Java; Bali.

<sup>1</sup> Probably visits Sumatra: has been recorded from the Andamans and "leucoptera" is recorded from Nias Island, West Sumatra. It is impossible to say what this latter is. We cannot distinguish between *bacchus* and *grayi* in winter, or immature plumage and as all birds of this genus in breeding, or moulting plumage, examined by us from the Malay Peninsula are *bacchus*, *grayi* is omitted from the list. A specimen of *speciosa* said to be from Singapore, is in the Berlin Museum but the provenance is doubtful.

<sup>2</sup> There seems to be no trustworthy record for Sumatra. See Salomonson, Bull. Mus. Hist. Nat. Paris, 1929, p. 347.

Genus **IXOBRYCHUS** Billberg.**Ixobrychus sinensis**<sup>1</sup> (Gmel.). Yellow Bittern.**Ixobrychus sinensis sinensis** (Gmel.).*Ardea Sinensis* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 642: China.*Ardea lepida* Horsf., Trans. Linn. Soc. xiii, 1821, p. 190: Java.*Distr.*—Malay Pensinsula.

Sumatra; Nias Island, West Sumatra; Billiton.

Borneo; Natuna Islands.

Java; Bali; Karimon-Java Islands.

**Ixobrychus cinnamomeus** (Gmel. ) . Chestnut Bittern**Ixobrychus cinnamomeus cinnamomeus** (Gmel.).*Ardea cinnamomea* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 643: China.*Ardea nebulosa* Horsf., Trans. Linn. Soc. xiii, 1821, p. 190: Java.*Botaurus assimilis* Brehm, Isis, 1842, p. 582: Java.*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java; Bali; Kangean Islands.

**Ixobrychus eurhythmus** (Swinh.). Schrenck's Bittern.*Ardetta eurhythmia* Swinhoe, Ibis, 1873, p. 74, pl. 2: Amoy, South China.*Distr.*—Malay States.

Sumatra.

Borneo.

Java; Mata Siri Island, Java Sea; Karimon-Java Islands.

Genus **DUPETOR** Heine and Reichenow.**Dupetor flavicollis** (Lath.). Black Bittern.**Dupetor flavicollis flavicollis** (Lath.).*Ardea flavicollis* Latham, Ind. Orn. ii, 1790, p. 701: India.*Ardea picata* Raffles, Trans. Linn. Soc. xiii, 1822, p. 326: Sumatra.*Ardea bilineata* Less., Traité d'Orn. 1831, p. 574: Java.*Distr.*—Malay Peninsula.

Sumatra; Nias Island, West Sumatra.

Borneo.

Java.

<sup>1</sup> Revision: Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 17.

Genus **BOTAURUS** Stephens.

***Botaurus stellaris*** (Linn.).

Bittern.

***Botaurus stellaris stellaris*** Linn.

*Ardea stellaris* Linn., Syst. Nat. 10th ed. 1758, p. 144: Sweden.

*Distr.*—Malay Peninsula.

Borneo.

Family **ANATIDÆ**.

Genus **ASARCORNIS** Salvadori.

***Asarcornis scutulata*** (Müll.).<sup>1</sup>

White-winged Wood-Duck.

*Anas scutulata* S. Müller, Verh. Nat. Gesch. Land u. Volk. 1842, p. 159: Java.

*Distr.*—Malay Peninsula.

Sumatra.

Java.

Genus **NETTAPUS** Brandt.

***Nettapus coromandelianus*** (Gmel.).

Cotton Teal.

***Nettapus coromandelianus coromandelianus*** (Gmel.).

*Anas coromandeliana* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 522: Coromandel, India.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka.

Borneo.

Java.

Genus **DENDROCYGNA** Swainson.

***Dendrocygna javanica*** (Horsf.)

Whistling Teal.

***Dendrocygna javanica javanica*** (Horsf.).

*Anas javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 200: Java.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java; Kangean Islands.

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<sup>1</sup> The status of birds occurring in Java and Sumatra seems uncertain. Specimens in the Raffles Museum from Korinchi, Sumatra seem to be domesticated hybrids, but free-flying birds certainly occur in Sumatra although we cannot say if in colour they show signs of domestication. If Müller's types are crossbred ducks this species should be known as *A. leucoptera* Blyth (Tenasserim).

**Dendrocygna javanica arcuata** (Horsf.).

*Anas arcuata* Horsfield, Zool. Res. in Java, 1824, pl. 65 and text :  
Java.

*Distr.*—Sumatra (South); ? Nias Island, West Sumatra.  
Borneo.  
Java; Bali.

Genus **ANAS** Linn.**Anas platyrhynchos** Linn.

Mallard.

**\*Anas platyrhynchos platyrhynchos** Linn.

*Anas platyrhynchos* Linn., Syst. Nat. 10th ed. 1758, p. 125 :  
Sweden.

*Distr.*—Borneo.

**Anas superciliosa** Gmel.

Australian Wild Duck.

**[Anas superciliosa superciliosa** Gmel.

*Anas superciliosa*, Gmelin, Syst. Nat. i, pt. 2, 1789, p. 537 : New  
Zealand.

*Distr.*—Extra-limital.]

**Anas superciliosa percna** Riley.

*Anas superciliosa percna* Riley, Proc. Biol. Soc. Wash. xxxii, 1919,  
p. 93 : Celebes.

*Distr.*—Sumatra.  
Java; Bali; Kangean Islands.

**\*Anas penelope** Linn.

Wigeon.

*Anas Penelope* Linn., Syst. Nat. 10th ed. 1758, p. 126 : Sweden.

*Distr.*—Borneo.

**Anas crecca** Linn.

Teal.

**Anas crecca crecca** Linn.

*Anas Crecca* Linn., Syst. Nat. 10th ed. 1758, p. 125 : Sweden.

*Distr.*—Malay Peninsula.

**Anas querquedula** Linn.

Garganey.

*Anas Querquedula* Linn., Syst. Nat. 10th ed. 1758, p. 126 :  
Sweden.

*Anas (Querquedula) humeralis* Müll., Verh. Nat. Gesch. Land en Volk.  
1842, p. 159 : Java.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

**Anas gibberifrons** S. Müll.<sup>1</sup> Wood-Teal.

**Anas gibberifrons gibberifrons** S. Müll.

*Anas (Mareca) gibberifrons* S. Müller, Verh. Nat. Gesch. Land en Volk. 1842, p. 159: Celebes.

*Distr.*—Java.

Christmas Island.

**Anas acuta** Linn. Pintail.

\***Anas acuta acuta** Linn.

*Anas acuta* Linn., Syst. Nat. 10th ed. 1758, p. 126: Sweden.

*Distr.*—Borneo.

### Genus **SPATULA** Boie.

**Spatula clypeata** (Linn.). Shoveller.

*Anas clypeata* Linn., Syst. Nat. 10th ed. 1758, p. 124: Sweden.

*Distr.*—Malay Peninsula.

Borneo.

### Genus **NYROCA** Fleming.

\***Nyroca fuligula** (Linn.). Tufted Duck.

*Anas Fuligula* Linn., Syst. Nat. 10th ed. 1758, p. 128: Sweden.

*Distr.*—? Malay Peninsula.

Borneo.

## Family **PHALACROCORACIDÆ**.

### Genus **PHALACROCORAX** Brisson.

**Phalacrocorax carbo** (Linn.). Cormorant.

[**Phalacrocorax carbo carbo** (Linn.).

*Pelecanus Carbo* Linn., Syst. Nat. 10th ed. 1758, p. 133: Europe.

*Distr.*—Extra-limital.]

**Phalacrocorax carbo sinensis** (Blum.).

*Pelecanus sinensis* J. F. Blumenbach, Abb. Nat. Gegen. No. 25, 1798: China.

*Distr.*—Malay Peninsula.

Sumatra.

<sup>1</sup> Ducks reported as occurring in the Cocos-Keeling Islands are perhaps of this species.

**Phalacrocorax sulcirostris** (Brandt). Little Black Cormorant.

[**Phalacrocorax sulcirostris sulcirostris** (Brandt).]

*Carbo sulcirostris* Brandt, Bull. Sci. Imp. Acad. Sci. St. Petersburg, iii, 1837, p. 56: New South Wales.

*Distr.*—Extra-limital.]

**Phalacrocorax sulcirostris territorii** (Math.).<sup>1</sup>

*Mesocarbo ater territorii* Mathews, Birds Austr. iv, 1915, p. 176: Northern Territory of Australia.

*Distr.*—Borneo.  
Java.

**Phalacrocorax niger** (Vieill.). Little Cormorant.

*Hydrocorax niger* Vieillot, Nouv. Dict. d'Hist. Nat. viii, 1817, p. 88: Bengal.

*Carbo javanica* Horsf., Trans. Linn. Soc. xiii, 1821, p. 197: Java.

*Distr.*—Malay Peninsula.  
? Nias Island, West Sumatra.  
Borneo.  
Java.<sup>2</sup>

**Phalacrocorax melanoleucos** (Vieill.). Pied Cormorant.

[**Phalacrocorax melanoleucos melanoleucos** (Vieill.).]

*Hydrocorax melanoleucos* Vieillot, Nouv. Dict. d'Hist. Nat. viii, 1817, p. 88: New South Wales.

*Distr.*—Extra-limital.]

\***Phalacrocorax melanoleucos melvillensis** (Math.).

*Carbo melanoleucos melvillensis* Mathews, Austr. Av. Rec. i, 1912, p. 74: Melville Island, Northern Territory, Australia.

*Distr.*—Bali.

## Family ANHINGIDÆ.

Genus **ANHINGA** Brisson.

**Anhinga rufa** (Lacép. and Daud.). Darter or Snake Bird.

[**Anhinga rufa rufa** (Lacép. and Daud.).]

*Plotus rufus* Lacépède and Daudin, Buffon Hist. Nat. ed. Didot, Quadr. xiv, 1802, p. 319: Senegal.

*Distr.*—Extra-limital.]

<sup>1</sup> Breeding birds examined but no comparison of subspecies possible.

<sup>2</sup> Peters includes Sumatra in the range of this species but we know of no reliable record from that island.

**Anhinga rufa melanogaster** Pennant.

*Anhinga melanogaster* Pennant, Ind. Zool. 1769, p. 13, pl. 12 : Ceylon.

*Distr.*—Malay States,<sup>1</sup>; Langkawi Islands.

Sumatra.

Borneo.

Java.

Family SULIDÆ.

Genus SULA Brisson.

**Sula dactylatra** Less.

Masked Gannet.

[*Sula dactylatra dactylatra* Less.

*Sula dactylatra* Lesson, Traité d'Orn. 1831, p. 601 : Ascension Island, Atlantic Ocean.

*Distr.*—Extra-limital.]

**Sula dactylatra bedouti** Math.<sup>2</sup>

*Sula dactylatra bedouti* Mathews, Austr. Av. Rec., i, 1913, p. 189 : Bedout Island, South-west Australia.

*Distr.*—Coast of Sarawak.

Java.

Christmas Island, Indian Ocean.

**Sula abbotti** Ridgw.

Abbott's Gannet.

*Sula abbotti* Ridgway, Proc. U.S. Nat. Mus. xvi, 1893, p. 599 : Assumption Island, Indian Ocean.

*Distr.*—Christmas Island; Cocos-Keeling Islands.

**Sula leucogaster** (Bodd.).<sup>3</sup>

Booby or Brown Gannet.

[*Sula leucogaster leucogaster* (Bodd.).

*Pelecanus Leucogaster* Boddaert, Tabl. Pl. Enl. 1783, p. 57 : Cayenne.

*Distr.*—Extra-limital.]

<sup>1</sup> Almost certain to occur in Peninsular Siam.

<sup>2</sup> Little is known of the distribution of *S. dactylatra* in Malaysia. Records from Java and Sumatra may refer to *S. abbotti*. Christmas Island is here included because Mathews (1927) specifically extends the range of his *S. d. bedouti* to that island whence we have only seen *S. abbotti*. A form of the species identified by Bangs as *S. d. personata* breeds in the Sulu Sea : some authors suggest that *bedouti* is inseparable from *personata*. The only specimens we have seen from Malaysia are from the coast of Sarawak.

<sup>3</sup> Cf. Rob. and Kinn., Bull. B. O. C. xlviii, 1928, p. 63.



**Sula leucogaster plotus** (Forst.).<sup>1</sup>

*Pelecanus Plotus* Forster, Descr. Anim. ed. Licht., 1844, p. 278 :  
near New Caledonia.

*Distr.*—Malay Peninsula (both coasts).

Sumatra.

Borneo; Tiga Island, North-west Coast of Borneo.

Java.

Christmas Island; Cocos-Keeling Islands

**Sula sula** (Linn.).

Red-footed Gannet.

[**Sula sula sula** (Linn.).

*Pelecanus Sula* Linn., Syst. Nat. 12th ed., i, 1766, p. 218 : Barbados,  
West Indies.

*Distr.*—Extra-limital.]

**Sula sula rubripes** Gould.

*Sula rubripes* Gould, Synops. Birds Austr. pt. iv, 1838, App. p. 7 :  
Australia.

*Distr.*—Pagi Islands, West Sumatra.

Coast of North Borneo.

Java; Bali.

Christmas Island; Cocos-Keeling Islands.

## Family FREGATIDÆ.<sup>2</sup>

### Genus **FREGATA** Lacépède.

**Fregata andrewsi**<sup>3</sup> Math.

Andrews' Frigate Bird.

*Fregata andrewsi* Mathews, Austr. Av. Rec. ii, 1914, p. 120 :  
Christmas Island, Indian Ocean.

*Distr.*—Anamba Islands.

? Small islands near Billiton ("aquila").

Coast of Sarawak.

Java.

Christmas Island; Cocos-Keeling Islands.

<sup>1</sup> We rather doubt if it is correct to place all Malaysian birds under one sub-species.

<sup>2</sup> Revisions : Lowe, Nov. Zool. xxxi, 1924, p. 299; Chas. and Kl., Journ. Mal. Br. Roy. Asiat. Soc. ii, 1924, p. 62.

<sup>3</sup> A specimen of *F. aquila* said to be from the Straits of Malacca is in the British Museum. We believe that a mistake in labelling has occurred.

**Fregata ariel** (G. R. Gray). Lesser Frigate Bird.

**Fregata ariel ariel** (G. R. Gray).<sup>1</sup>

*Atagen Ariel* G. R. Gray, List. Gen. Birds, iii, 1845, p. 669, pl. 183: Raine Island, North Queensland.

*Distr.*—Malay Peninsula (both coasts); Tioman Archipelago; Anamba Islands.

Sumatra (Straits of Malacca near the Aroa Islands).

Coast of Sarawak; Labuan; Balambangan Island, North Borneo; Maratua Islands; Karimata Islands.

Java; Kangean Islands.

Cocos-Keeling Islands.

**Fregata minor** (Gmel.). Frigate Bird.

**Fregata minor minor** (Gmel.).

*Pelecanus minor* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 572: Christmas Island, Indian Ocean.

*Fregata minor listeri* Mathews, Austr. Av. Rec. ii, 1914, p. 119: Christmas Island, Indian Ocean.

*Distr.*—Coast of Sarawak<sup>2</sup>; Sulu Sea.

Java; Bawean Island.

Christmas Island.

## Family PHAËTHONTIDÆ.

### Genus PHAËTHON Linn.

**Phaëthon rubricauda** Bodd. Red-tailed Tropic Bird.

[**Phaëthon rubricauda rubricauda** Bodd.

*Phaeton rubricauda* Boddaert, Tabl. Pl. Enl. 1783, p. 57: Mauritius.

*Distr.*—Extra-limital.]

**Phaëthon rubricauda westralis** Math.

*Phaëthon rubricauda westralis* Mathews, Austr. Av. Rec. i, 1912, p. 88: West Australia.

*Distr.*—Christmas Island; ? Cocos-Keeling Islands.<sup>3</sup>

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<sup>1</sup> A frigate bird is also found far inland on Korinchi Lake, West Sumatra. Dr. P. R. Lowe lists birds from the Cocos-Keeling Islands as *F. ariel* subsp. We have never seen specimens from that locality. Has also been recorded from Christmas Island but we doubt if the bird occurs there and suspect a mistake in labelling.

<sup>2</sup> Formerly, but I think wrongly, identified by Mr. C. Boden Kloss and myself as *F. m. aldabrensis* Maths.

<sup>3</sup> *P. rubricauda* is included in Vorderman's Sumatran list without sufficient authority.

**Phaëthon lepturus** Daud. White-tailed Tropic Bird

\***Phaëthon lepturus lepturus** Daud.

*Phaëthon lepturus* Daudin, Buffon's Hist. Nat. ed. Didot, Quadr. xiv, 1802, p. 319: Mauritius.

*Distr.*—? Cocos-Keeling Islands.<sup>1</sup>

**Phaëthon lepturus fulvus** Brandt. Christmas Island Tropic Bird.

*Phaëthon fulvus* Brandt, Mém. Acad. Imp. Sci. St. Petersburg. (6) 5, 1840, p. 269: No type loc. = Christmas Island, Indian Ocean.

*Phaëthon flavo-aurantius* Laur., Ann. Lyc. N. York, vii, 1862, p. 142: Typ. loc. unknown = Christmas Island, Indian Ocean.

*Distr.*—Christmas Island, Indian Ocean; Cocos-Keeling Islands.

**Phaëthon æthereus** Linn. Short-tailed Tropic Bird.

[**Phaëthon æthereus æthereus** Linn.]

*Phaëthon æthereus* Linn., Syst. Nat. 10th ed. 1758, p. 134: Ascension Island.

*Distr.*—Extra-limital.]

**Phaëthon æthereus indicus** Hume.

*Phaëthon indicus* Hume, Stray Feathers, iv, 1876, p. 481: Mekran Coast.

*Distr.*—Straits of Malacca.

## Family PELECANIDÆ.

### Genus PELECANUS Linn.

**Pelecanus onocrotalus** Linn.<sup>2</sup> White Pelican.

*Pelecanus Onocrotalus* Linn., Syst. Nat. 10th ed. 1758, p. 132: Caspian Sea, Russian Asia.

*Pelecanus javanicus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 197: Java.

*Distr.*—Malay Peninsula.

Sumatra.

Java.

<sup>1</sup> There is some confusion about the forms of *Phaëthon* found in the Cocos-Keeling Islands. Ogilvie-Grant (Cat. Birds Brit. Mus. xxvi, 1898, p. 454) placed Nicholson's record (Ibis, 1882, p. 70) of "*P. candidus*" relating to a specimen obtained by Forbes in the Cocos-Keeling Islands, under *P. lepturus*, but wrongly quoted Java as the locality. Wood-Jones (P.Z.S. 1909, p. 141) however, records the Cocos breeding bird as *rubricauda*, but judging from a photograph given to me by Mr. C. Clunies Ross, the former author's view seems correct.

<sup>2</sup> In our treatment of the pelicans we have followed Messrs. C. H. B. Grant and C. W. Mackworth-Praed, 1934.

- Pelecanus roseus** Gmel.<sup>1</sup> Spotted-billed Pelican.  
*Pelecanus roseus* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 570: Manila,  
 Philippine Islands.  
*Distr.*—Malay Peninsula.  
 Sumatra.  
 Java.

## Family ÆGYPIIDÆ.

### Genus GYPS Savigny.

- Gyps indicus** (Scop.). Long-billed Vulture.  
 [**Gyps indicus indicus** (Scop.).  
*Vultur indicus* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 85:  
 Pondicherry.  
*Distr.*—Extra-limital.]  
**Gyps indicus nudiceps** Baker.  
*Gyps indicus nudiceps* Stuart Baker, Bull. B.O.CI. xlvii, 1927,  
 p. 151. New name for *G. tenuirostris* Hume: Nepal.  
*Distr.*—Malay States.<sup>2</sup>

### Genus PSEUDOGYPS Sharpe.

- Pseudogyps bengalensis** (Gmel.). White-backed Vulture.  
*Vultur bengalensis* Gmelin, Syst. Nat. i, 1788, p. 245: Bengal.  
*Distr.*—Malay Peninsula.<sup>3</sup>

### Genus TORGOS Kaup.

- Torgos calvus** (Scop.). King Vulture.  
*Vultur calvus* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 85:  
 Pondicherry.  
*Distr.*—Malay Peninsula.<sup>4</sup>

<sup>1</sup> Replaces *P. philippensis* Gmel.

<sup>2</sup> Although *nudiceps* occurs as far south as Perak and is almost without doubt therefore found in Peninsular Siam we can find no record for that territory.

<sup>3</sup> Now only found as far south as Perak, but formerly extending further down the Malay Peninsula perhaps even to Singapore whence, however, there are only some old visual records.

<sup>4</sup> South to Perak, but formerly further down the Peninsula.

Genus **NEOPHRON** Savigny.

**Neophron percnopterus** (Linn.). Egyptian or White Vulture.

[**Neophron percnopterus percnopterus** (Linn.).

*Vultur Perenopterus* Linn., Syst. Nat. 10th ed. 1758, p. 87 : Egypt.

*Distr.*—Extra-limital.]

\***Neophron percnopterus ginginianus** (Lath.).

*Vultur ginginianus* Latham, Ind. Orn. i, 1790, p. 7 : Coromandel.

*Distr.*—Peninsular Siam.<sup>1</sup>

Family **FALCONIDÆ**.

Genus **CIRCUS** Lacépède.<sup>2</sup>

**Circus æruginosus** (Linn.).

Marsh Harrier.

**Circus æruginosus æruginosus** Linn.

*Falco æruginosus* Linn., Syst. Nat. 10th ed. 1758, p. 91 : Sweden.

*Distr.*—Malay Peninsula.

Sumatra.

**Circus spilonotus** Kaup.

Eastern Marsh Harrier.

**Circus spilonotus spilonotus** Kaup.

*Circus spilonotus* Kaup, Isis, 1847, p. 953 : East Siberia.

*Distr.*—Malay States.<sup>3</sup>

Borneo.

**Circus melanoleucus** (Penn.).

Pied Harrier.

*Falco melanoleucus* Pennant, Ind. Zool. 1769, p. 12, pl. ii, Ceylon.

*Distr.*—Malay Peninsula.

Borneo.

Genus **ACCIPITER** Brisson.

**Accipiter trivirgatus** (Temm.).

Crested Goshawk.

**Accipiter trivirgatus trivirgatus** (Temm.).

*Falco trivirgatus* Temm., Pl. Col. 303, 1824 : Sumatra.

*Astur anceps* Bp., Consp. Gen. Av. i, 1850, p. 31 : as syn. of *trivirgatus*.

*Distr.*—Sumatra; Nias Island, West Sumatra.

Borneo.

Java.

<sup>1</sup> According to Dr. W. L. Abbott extends to Penang but we have never seen it there.

<sup>2</sup> We regard Kelham's record of *C. pygargus* ("*cineraceus*") from the Malay States as too uncertain for inclusion.

<sup>3</sup> Almost certainly occurs in Peninsular Siam.

**Accipiter trivirgatus indicus** (Hodgs. or Pear.).<sup>1</sup>

*Astur indicus* Hodgson or Pearson, Bengal Sporting Mag. vii, 1836,  
p. 177: India.

*Distr.*—Malay Peninsula.  
North Natuna Islands.

**Accipiter badius** (Gmel.). Shikra.

[**Accipiter badius badius** (Gmel.).

*Falco badius* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 280: Ceylon.

*Distr.*—Extra-limital.]

**Accipiter badius poliopsis** (Hume).

*Micronisus poliopsis* Hume, Stray Feathers ii, 1874, p. 325: North  
Pegu.

*Distr.*—Malay Peninsula.<sup>2</sup>  
Sumatra.

**Accipiter soloënsis** (Horsf.). Chinese Goshawk.

*Falco Soloënsis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 137:  
Central Java.

*Falco cuculoides* Temm., Pl. Col. 110 and 129, 1822: West Java.

*Distr.*—Malay Peninsula.  
Sumatra; West Sumatran Islands of Simalur and Nias.  
Borneo.  
Java; Thousand Islands, Java Sea.

**Accipiter fasciatus**<sup>3</sup> (Vig. and Horsf.). Australian Goshawk.

[**Accipiter fasciatus fasciatus** (Vig. and Horsf.).

*Astur Fasciatus* Vigors and Horsfield, Trans. Linn. Soc. xv, 1827,  
p. 181: New South Wales.

*Distr.*—Extra-limital.]

**Accipiter fasciatus natalis** (Lister). Christmas Island Goshawk.

*Urospizias natalis* Lister, Proc. Zool. Soc. for 1888, p. 523:  
Christmas Island.

*Distr.*—Christmas Island, Indian Ocean.

<sup>1</sup> Judging from published measurements birds from the Malay Peninsula are rather smaller than typical *indicus*: they are certainly not the smaller and brighter *t. trivirgatus* and should perhaps be indicated by *trivirgatus* > *indicus*.

<sup>2</sup> The provenance of "Singapore" specimens is a little doubtful. Buttiköfers "*poliopsis*" from Nias is stated to have the cere yellow and is therefore probably *A. soloënsis*.

<sup>3</sup> See Stres., Journ. f. Orn. 1925, p. 319.

**Accipiter virgatus** (Temm.).

Small Sparrow-Hawk.

**Accipiter virgatus virgatus** (Temm.).*Falco virgatus* "Reinw." Temminck, Pl. Col. 109, 1823, : Java.*Accipiter rufotibialis* Sharpe, Ibis, 1887, p. 437 : Mt. Kinabalu, North Borneo.*Distr.*—Malay States.Sumatra.<sup>1</sup>

Borneo.

Java; Bali.

**Accipiter virgatus gularis** (Temm. and Schleg.).*Astur (Nisus) gularis* Temminck and Schlegel, Faun. Japon. Aves, 1844, p. 5, pl. 2 : Japan.*?Accipiter nisoides* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p. 727 : Malacca.<sup>2</sup>*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Billiton.

Borneo; North Natuna Islands.

Java.

**Accipiter nisus** (Linn.).

Sparrow-Hawk.

**[Accipiter nisus nisus** (Linn.).*Falco Nisus* Linn., Syst. Nat. 10th ed. 1758, p. 92 : Sweden.*Distr.*—Extra-limital.]**Accipiter nisus nisosimilis** (Tick.).*Falco Nisosimilis* Tickell, Journ. Asiat. Soc. Bengal, ii, 1833, p. 571 : Borabham, Bengal.*Distr.*—Borneo.<sup>3</sup>Genus **BUTEO** Lacépède.**Buteo burmanicus** Hume.

Desert-Buzzard.

**Buteo burmanicus burmanicus** Hume.*Buteo burmanicus* Hume, Stray Feathers, iii, 1875, p. 30 : Thayetmyo, Burma.*Distr.*—Malay States.

<sup>1</sup> "*virgatus*" has also been recorded from the West Sumatran Islands of Simalur, Lasia, Siumat, and Nias, but as in all these localities the migratory *gularis* no doubt occurs the identifications are not certain.

<sup>2</sup> *A. nisoides* is more likely to apply to a migratory form than to a resident race which, in the Malay Peninsula, would probably only be obtained in the mountains of the interior. Swann's remarks in Mon. Bds. Prey, 1926, p. 327 concerning *A. affinis* in the Malay Peninsula and Borneo seem to refer to *A. v. gularis* : South-west Siam appears to be the southern limit of *affinis*. Wintering adults taken in the Malay Peninsula are very variable in colour. Most males are inseparable from Japanese birds, but paler individuals may be referable to *A. v. stevensoni* Gurney.

<sup>3</sup> A female in the Sarawak Museum, taken at Kuching, Sarawak on 30th March, 1895, makes a noteworthy extension of range for this species.

Genus **HIERAAËTUS**<sup>1</sup> Kaup.**Hieraaëtus pennatus** (Gmel.). Booted Eagle.**Hieraaëtus pennatus pennatus** (Gmel.).<sup>2</sup>*Falco pennatus* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 272: Spain  
(Stuart Baker, 1930).*Distr.*—Malay States.**Hieraaëtus kienerii** (E. Geoff.). Rufous-bellied Hawk-Eagle.**[Hieraaëtus kienerii kienerii** (E. Geoff.).*Astur Kienerii* G. S. [=E. Geoffroy], Mag. Zool. 1835, cl. 2, pl.  
35: Himalayas.*Distr.*—Extra-limital.]**Hieraaëtus kienerii formosus** Stres.*Hierraëtus kieneri formosus* Stresemann, Orn. Monatsb. xxxii,  
1924, p. 108: Celebes.*Distr.*—Malay States.

Sumatra.

Borneo.

Java.

Genus **ICTINAËTUS** Blyth.**Ictinaëtus malayensis** (Temm.).<sup>3</sup> Black Eagle.*Falco malayensis* Temminck, Pl. Col. 117, 1824: Java.*Distr.*—Malay Peninsula.

Sumatra; Nias Island, West Sumatra; Billiton.

Borneo.

Java; Bali.

Genus **SPIZAËTUS** Vieillot.**Spizaëtus cirrhatus**<sup>4</sup> (Gmel.). Changeable Hawk-Eagle.**[Spizaëtus cirrhatus cirrhatus** (Gmel.).*Falco cirrhatus* Gmelin, Syst. Nat. 1, 1788, p. 274: India.*Distr.*—Extra-limital.]

<sup>1</sup> Revisions: Stres., Journ. f. Orn. lxxii, 1924, p. 432; Orn. Monatsber, 1924, p. 108; Chas. and Kl., Journ. Siam Soc. (Nat. Hist. Suppl.) vii, 1928, p. 162.

<sup>2</sup> A very rare bird in the Malay Peninsula.

<sup>3</sup> *Perniger* Hodgs. from Nepal seems unrecognizable. Doherty is responsible for the Bali record, but his specimen does not appear to have been critically examined.

<sup>4</sup> Cf. Stres., Journ. f. Orn. lxxii, 1924, p. 430.



**Spizaëtus cirrhatus limnæetus** Horsf.

*Falco Limnæetus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 138 : Java.

*Falco caligatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 278 : Sumatra.

*Falco niveus* Temm., Pl. Col. 127, 1823 : Java.

*Limnaëtus horsfieldii* Vig., Mem. Raffles, 1830, p. 649 : new name for *limnæetus*.

Distr.—Malay Peninsula.

Sumatra; Pagi Islands, West Sumatra.

Borneo.

Java.

**Spizaëtus nipalensis**<sup>1</sup> (Hodgs.).

Hodgson's Hawk-Eagle.

**Spizaëtus nipalensis nipalensis** (Hodgs.).

*Nisaëtus Nipalensis* Hodgson, Journ. Asiat. Soc. Bengal, v, 1836, p. 229 : Nepal.

Distr.—Peninsular Siam.

**Spizaëtus nipalensis alboniger** (Blyth).

Blyth's Hawk-Eagle.

*Nisaëtus alboniger* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 173 : Malacca.

*Spizaëtus borneonensis* Gray, Cat. Acciptr. 1848, p. 16 : Borneo.

*Spizaëtus nanus* Wall., Ibis, 1868, p. 14, pl. 1 : Borneo.

Distr.—Malay Peninsula; Anamba Islands.

Sumatra; Banjak Islands and Nias Island, West Sumatra.

Borneo.

**\*Spizaëtus nipalensis bartelsi** Stres.

*Spizaëtus nipalensis bartelsi* Stresemann, Journ. f. Orn. lxxii, 1924, p. 431 : West Java.

Distr.—Java.<sup>2</sup>

Genus **CIRCAËTUS** Vieillot.**Circaëtus gallicus** (Gmel.).

Short-toed Eagle.

**\*Circaëtus gallicus gallicus** (Gmel.).

*Falco gallicus* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 259 : France.

Distr.—Malay States.

<sup>1</sup> Cf. Stres., Journ. f. Orn. lxii, 1924, p. 432.

<sup>2</sup> Swann has suggested that the Javan and Bornean sub-species are inseparable in which case other names, now quoted as synonyms of *alboniger*, would have priority over *bartelsi*, but Swann's figures for the wing-length of typical *alboniger* are too small (our males run up to 348 mm. which is also about the maximum for the Bornean birds we have seen): we have never seen a bird from Borneo as large as the type of *bartelsi*, 358 mm. in wing-length.

Genus **SPILORNIS**<sup>1</sup> G. R. Gray.**Spilornis cheela**<sup>2</sup> (Lath.).

Serpent Eagle.

[**Spilornis cheela cheela** (Lath.).*Spilornis Cheela* Latham, Ind. Orn. i, 1790, p. 14 : Lucknow, India.*Distr.*—Extra-limital.]**Spilornis cheela bassus** (Forst.).*Falco Bassus* J. R. Forster, in Levaillant, Naturg. Afr. Vög. 1798, p. 55, pl. 15 : Africa error=Sumatra.*Falco bacha* Daudin, Traité d'Orn. ii, 1800, 43 : the same.*Spilornis cheela malayensis* Swann, Syn. List. Accip. 1920, p. 83 : Raub, Pahang, Malay States.*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago.

**Spilornis cheela pallidus** Wald.<sup>3</sup>*Spilornis pallidus* Walden, Ibis, 1872 : p. 363 : Sarawak.*Spilornis raja* Sharpe, Bull. B. O. Cl. i, 1893, p. 55 : Sarawak.? *Spilornis cheela richmondi* Swann, Syn. List. Accip. 1922, p. 135 : South-west Borneo.*Distr.*—Borneo (lowlands).**Spilornis cheela kinabaluensis** Scl.*Spilornis cheela kinabaluensis* W. L. Sclater, Bull. B.O.Cl. xl, 1919, p. 37 : Mt. Kinabalu, British North Borneo.*Distr.*—The mountains of North Borneo.**Spilornis cheela bido** (Horsf.).*Falco bido* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 137 : Java.*Distr.*—Java; Bali.**\*Spilornis cheela baweanus** Oberh.*Spilornis bassus baweanus* Oberholser, Proc. U.S. Nat. Mus. lli, 1917, p. 185 : Bawean Island.*Distr.*—Bawean Island.

<sup>1</sup> There seems to be some doubt as to whether or not *Hamatornis* Gould antedates *Hamatornis* Vigors (March, 1832) the use of which for this genus is invalidated by *Hamatornis* Swains. (Feb. 1832).

<sup>2</sup> Revision : Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 19.

<sup>3</sup> A thin race standing on average small size and pale colour only. North of the Baram River it is probably not separable from *bassus* : birds agreeing with *richmondi* occur in Sarawak. *S. raja* is merely an immature bird of *pallidus* : the type and unique specimen has been regarded as representing a Bornean race of *rufpectus* of Celebes.

**Spilornis cheela natunensis** Chas.

*Spilornis cheela natunensis* Chasen, Bull. Raffles Mus. ix, 1934, p. 93 : Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**Spilornis cheela abbotti** Richm.

*Spilornis abbotti* Richmond, Proc. U.S. Nat. Mus., xvi, 1903, p. 492 : Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**Spilornis cheela salvadorii** Berl.

*Spilornis cheela salvadorii*, Berlepsch, Nov. Zool. ii, 1895, p. 73 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**Spilornis cheela sipora** Chas. and Kloss.

*Spilornis elgini sipora*<sup>1</sup> Chasen and Kloss, Ibis, 1926, p. 278, pl. 3 : Sipora Island, West Sumatra.

*Distr.*—Sipora Island, Mentawi Group, West Sumatra.

Genus **BUTASTUR** Hodgson.**\*Butastur liventer** (Temm.). Fulvous-winged Buzzard-Eagle.

*Falco liventer* Temminck, Pl. Col. 438, 1827 : Celebes.

*Falco pallidus* Lesson, Traité d'Orn. 1830, p. 82 : Java.

*Distr.*—Borneo.<sup>2</sup>

Java.

**Butastur indicus** (Gmel.).

Grey-faced Buzzard-Eagle.

*Falco indicus* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 264 : Java.

*Buteo (Butastur) fasciatus* Hay, Madr. Journ. Lit. Sci. xiii, pt. 2, 1845, p. 146 : Malacca.

*Astur barbatus* Eyton, Ann. Mag. Nat. Hist. xvi, 1846, p. 227 : Malay Peninsula.

*Distr.*—Malay Peninsula.

Borneo.

Java.

<sup>1</sup> A serpent-eagle also occurs in the Pagi Islands, West Sumatra. I now think that Kloss and I were wrong in linking this race to *S. elgini*.

<sup>2</sup> The evidence for the occurrence of this species in Borneo is very slight, but as it occurs in Celebes we have retained it in the Bornean list for the present.

Genus **HALIÆETUS** Savigny.<sup>1</sup>**Halietetus leucogaster** (Gmel.). White-bellied Sea-Eagle.*Falco leucogaster* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 257: Java (Hart. 1902).*Haliaetus fulviventris* Vieill., Nouv. Dict. d' Hist. Nat. ed. 2, xxviii, 1819, p. 283: Java.*Falco dimidiatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 277: Sumatra.*Distr.*—Malay Peninsula; Anamba Islands; Tambelan Islands.

Sumatra; Rhio Archipelago; West Sumatran Islands of Simalur, Banjak group, Nias and Mentawi group.

Borneo; North Bornean Islands; North Natuna Islands; Maratua group; Karimata Islands.

Java; Thousand Islands; Bali; Karimon-Java Islands; Kangean Islands.

Genus **ICTHYOPHAGA** Lesson.**Ichthyophaga ichthyæetus** (Horsf.). Larger Fishing-Eagle.**Ichthyophaga ichthyæetus ichthyæetus** (Horsf.).*Falco Ichthyæetus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 236: Java.*Pandion Horsfieldii* Selby, Cat. Gen. Sub-gen. Types Aves, 1840, p. 2: new name.*Ichthyæetus bicolor* Gray, List. Gen. Birds, 2nd ed., 1841, p. 4: new name.*Distr.*—Malay Peninsula.Sumatra; Rhio Archipelago; Taya Island, Lingga Archipelago (*viz.*).

Borneo.

Java.

**Ichthyophaga nana** (Blyth.). Smaller Fishing-Eagle.**Ichthyophaga nana nana** (Blyth.).*Ichthyæetus nanus* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 202: Singapore Island.*Falco (Pandion) humilis* S. Müll., Verh. Nat. Gesch. Land en Volk. 1845, pp. 471, 48, pl. 6: Sumatra.*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Genus **HALIASTUR** Selby**Haliastur indus** (Bodd.).

Brahminy Kite.

**[Haliastur indus indus Bodd.]***Falco Indus* Boddaert, Tabl. Pl. Enlum. 1783, p. 25: Pondicherry, India.*Distr.*—Extra-limital.]<sup>1</sup> "*H. leucoryphus*" for Borneo is based on a misidentification.

**Haliastur indus intermedius** Gurney.*Haliastur intermedius* Gurney, Ibis, 1865, p. 28: Java.*Distr.*—Malay Peninsula.Sumatra; Rhio Archipelago; Banka; Billiton and Mendanau;  
West Sumatran Islands of Simalur, Banjak group, Nias  
and Pagi Islands.

Borneo; North Bornean Islands.

Java; Bali; Kangean Islands.

Genus **MILVUS**<sup>1</sup> Lacépède.**Milvus migrans** (Bodd.).

Kite.

[*Milvus migrans migrans* (Bodd.).*Falco migrans* Boddaert, Tabl. Pl. Enlum. 1783, p. 28: France.*Distr.*—Extra-limital.]**Milvus migrans govinda** Sykes.*Milvus Govinda* Sykes, Proc. Comm. Zool. Soc. 1832, p. 81: Deccan.*Distr.*—Malay States.<sup>2</sup>**\*Milvus migrans lineatus** (Gray).*Haliaëtus lineatus* Gray in Hardwicke's Illustr. Ind. Zool. 1, 1831,  
p. 1, pl. 18: China.*Distr.*—Borneo.Genus **ELANUS** Savigny.**Elanus caeruleus** (Desfont.).

Black-winged Kite.

**Elanus caeruleus caeruleus** (Desfont.).*Falco caeruleus* Desfontaines, Hist. (Mém.) Acad. Paris for 1787,  
(1789) p. 503: Algiers.*Distr.*—Malay States.<sup>3</sup>**Elanus caeruleus hypoleucus** Gould.*Elanus hypoleucus* Gould, Proc. Zool. Soc. 1859, p. 127: Celebes.*Elanus intermedius* Schleg., Mus. Pays-Bas, Milvi, 1862, p. 7: Java.*Distr.*—Sumatra.

Borneo.

Java.

<sup>1</sup> Revision: Snouck. v. Schaub., Alauda, 1932, p. 156.<sup>2</sup> On the continent only known from as far south as Koh Lak in South-west Siam.<sup>3</sup> Not yet definitely recorded from Peninsular Siam.

Genus **MACHÆRHAMPHUS** Westerman.**Machærhamphus alcinus** Westerman. Slender-billed Pern.**Machærhamphus alcinus alcinus** Wester.*Machærhamphus alcinus* Westerman, Bijd. tot de Dierk. 1, 1848  
(? 1851), p. 29, pl. 12: Malacca.*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.Genus **PERNIS**<sup>1</sup> Cuvier.**Pernis apivorus** (Linn.). Honey-Buzzard.**[Pernis apivorus apivorus** (Linn.).*Falco apivorus* Linn., Syst. Nat. 10th. ed. 1758, p. 91: Sweden.*Distr.*—Extra-limital.]**Pernis apivorus ptilorhyncus** (Temm.).*Falco ptilorhyncus* Temminck, Pl. Col. 44, 1821: Java.*Pernis torquata* Less., Traité d'Orn. 1830, p. 76: Sumatra.*Pernis tweedalii* Hume, Stray Feathers, ix, 1880, p. 446: Malacca.*Distr.*—Malay Peninsula.

Sumatra; Siberut Island, West Sumatra.

Borneo.

Java.

**Pernis apivorus japonicus** Kuroda.*Pernis apivorus japonicus* Kuroda, Dobuts. Zasshi, 37, 1925, p. 226  
(English version); Hondo, Japan: also Formosa and China.*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Banka.

Borneo.

Java.

**Pernis apivorus ruficollis** Less.<sup>2</sup>*Pernis ruficollis* Lesson, Traité d'Orn. 1830, p. 77: Bengal.*Distr.*—Malay Peninsula.Genus **AVICEDA** Swainson.**Aviceda leuphotes** (Dumont). Black-crested Baza.*Falco leuphotes* Dumont, Dict. Sci. Nat. xvi, 1820, p. 217:  
Pondicherry.*Distr.*—Malay Peninsula.<sup>1</sup> Cf. Kloss, Treubia, xiii, 1931, p. 314.<sup>2</sup> Both *P. a. japonicus* and *ruficollis* migrate to Malaysia.

**Aviceda jerdoni** (Blyth). Jerdon's Baza.

**Aviceda jerdoni jerdoni** (Blyth).

*Pernis Jerdoni* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 464 : Malacca.

*Aviceda sumatrensis* Lafr., Rev. Zool. 1848, p. 210 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

**Aviceda jerdoni borneensis** (Sharpe).

*Baza borneensis* Sharpe, Ibis, 1893, p. 557 : Pontianak, Borneo.

*Distr.*—Borneo.

### Genus **MICROHIERAX** Sharpe.

**Microhierax cærulescens** (Linn.). Falconet.

[*Microhierax cærulescens cærulescens* (Linn.).

*Falco cærulescens* Linn., Syst. Nat. 10th ed. 1758, p. 88 : Bengal.

*Distr.*—Extra-limital.]

**Microhierax cærulescens fringillarius** (Drap.).

*Falco fringillarius* Drapiez, Dict. Class. d'Hist. Nat. vi, 1824, p. 412, pl. 5 : Sumatra (*Hartert*, 1902).

*Hierax malayensis* Strick., Ann. Nat. Hist. xiii, 1844, p. 33 : "Malay species" = Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

**Microhierax latifrons** Sharpe. White-fronted Falconet

*Microhierax latifrons* Sharpe, Ibis, 1879, p. 237, pl. 7 : Lawas River, North-west Borneo.

*Distr.*—Borneo (North).

### Genus **FALCO** Linn.

**Falco peregrinus** Tunst. Peregrine Falcon.

[**Falco peregrinus peregrinus** Tunst.

*Falco Peregrinus* Tunstall, Orn. Brit. 1771, p. 1 : Great Britain.

*Distr.*—Extra-limital.]

**Falco peregrinus calidus** Lath.*Falco calidus* Latham, Ind. Orn. 1, 1790, p. 41 : India.*Distr.*—Malay States.Sumatra;<sup>1</sup> Banka; Billiton (? subsp.).

Borneo.

Java; Thousand Islands.

**Falco peregrinus ernesti** Sharpe.*Falco ernesti* Sharpe, Ibis, 1894, p. 545 : Mt. Dulit, Sarawak.*Distr.*—Sumatra.

Borneo.

Java; Bali.

**Falco subbuteo** Linn.

Hobby.

**Falco subbuteo** subsp.*Falco Subbuteo* Linn., Syst. Nat. 10th ed. 1758, p. 89 : Sweden.*Distr.*—Java.**Falco severus** Horsf.

Horsfield's Hobby.

**Falco severus severus** Horsf.<sup>2</sup>*Falco severus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 135 : Java.*Falco aldrovandrii* "Reinw." in Temm., Pl. Col. 128, 1822 : Java.*Distr.*—Sumatra.

Borneo.

Java.

**Falco tinnunculus** Linn.<sup>3</sup>

Kestrel.

**[Falco tinnunculus tinnunculus** Linn.*Falco Tinnunculus* Linn., Syst. Nat. 10th ed. 1758, p. 90 : Sweden.*Distr.*—Extra-limital.]**Falco tinnunculus japonensis** Ticeh.*Falco tinnunculus japonensis* Ticehurst, Bull. B. O. Cl. 1, 1929, p. 10 : new name for *F. japonicus* Temm. and Schleg. (Japan).*Distr.*—Malay States.

Borneo.

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<sup>1</sup> A falcon, no doubt of this species, was seen by Dr. Abbott on Simalur Island, West Sumatra. Not yet recorded from Peninsular Siam, but almost certain to occur there.

<sup>2</sup> *F. severus* has been obtained at Bangkok in Siam but there are no satisfactory records from the Malay Peninsula.

<sup>3</sup> All kestrels of this species are rare in Malaysia. The few we have seen together with several from Siam seem to represent two races. "*tinnunculus*" has also been recorded from Nias Island, West Sumatra.



**Falco tinnunculus saturatus** Blyth.

*Falco saturatus* Blyth, Journ. Asiat. Soc. Bengal, xxviii, 1859,  
p. 277: Tenasserim.

*Distr.*—Malay States.

**Falco moluccensis** (Bp.).

Moluccan Kestrel.

[**Falco moluccensis moluccensis** (Bp.).

*Tinnunculus moluccensis* "Schleg." Bonaparte, Consp. Gen. Av.  
1, 1850, p. 27: Moluccas.

*Distr.*—Extra-limital.]

**Falco moluccensis occidentalis** (Mey. and Wigl.).

*Tinnunculus moluccensis occidentalis* Meyer and Wigglesworth, Abh.  
Ber. Mus. Dresden, vi, No. 2, 1896, p. 8: Celebes.

\**Cerchneis moluccensis microbalia* Oberh., Proc. U.S. Nat. Mus. liv,  
1917, p. 179: Solombo Besar Island, Java Sea.

*Distr.*—Borneo.

Java; Bali; Kangean Islands; Solombo Besar Island, Java Sea.

**\*Falco cenchroides** Vig. and Horsf.

Nankeen Kestrel.

*Falco Cenchroides* Vigors and Horsfield, Trans. Linn. Soc. xv,  
1827, p. 183: New South Wales.

*Distr.*—Java.

## Family PANDIONIDÆ.

### Genus PANDION Savigny.

**Pandion haliaetus** (Linn.).

Osprey.

**Pandion haliaetus haliaetus** (Linn.).<sup>1</sup>

*Falco Haliaetus* Linn., Syst. Nat. 10th ed. 1758, p. 91: Europe.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo; North Natuna Islands.

Java; Bawean Island.

**Pandion haliaetus cristatus** (Vieill.).

*Buteo cristatus* Vieillot, Nouv. Dict. d'Hist. Nat. iv, 1816, p. 481:  
Tasmania.

*Distr.*—Malay Peninsula; Billiton.

Java; Bali; Kangean Island and Karimon-Java Islands.

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<sup>1</sup> Some specimens from the Malay Peninsula and the Natuna Islands are *P. h. haliaetus*: the other localities are extracted from literature and may, therefore, refer to *P. h. cristatus* which also occurs in Malaysia. We have only listed as *cristatus* specimens examined, or mentioned in, apparently, critical records.

## Family STRIGIDÆ.

Genus **ASIO** Brisson.<sup>1</sup>**Asio flammeus** (Pontopp.).

Short-eared Owl.

**Asio flammeus flammeus** (Pont.).*Strix flammea* Pontoppidan, Danske Atlas, 1, 1763, p. 617, pl. 25 : Denmark.*Distr.*—Malay States.  
Borneo.Genus **BUBO**<sup>2</sup> Duméril.**Bubo zeylonensis** (Gmel.).

Ceylon Fish Owl.

[**Bubo zeylonensis zeylonensis** (Gmel.).]*Strix zeylonensis* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 287 : Ceylon.  
*Distr.*—Extra-limital.]**Bubo zeylonensis leschenault** (Temm.).*Strix leschenault* Temminck, Pl. Col. 20, 1824 : Chandanagore, East India (*Baker*, 1930).*Distr.*—Peninsular Siam.**Bubo ketupu** (Horsf.).

Fish Owl.

**Bubo ketupu ketupu** (Horsf.).*Strix Ketupu* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 141 : Java.  
*Ketupa javanensis* Less., Traité d'Orn. 1830, p. 114 : new name for *S. ketupu*.*Distr.*—Malay States.Sumatra; Rhio Archipelago; Billiton; Banka.  
Borneo (part).  
Java; Bali.**Bubo ketupu aagaardi** Neum.*Bubo ketupu aagaardi* Neumann, Bull. Brit. Orn. Cl. lv, 1935, p. 138 : Bang Nara, Peninsular Siam.*Distr.*—Peninsular Siam.<sup>3</sup>**\*Bubo ketupu pageli** Neum.<sup>4</sup>*Bubo ketupu pageli* Neumann, Bull. Brit. Orn. Cl. lv, 1935, p. 138 : Marudu Bay, British North Borneo.*Distr.*—North-east Borneo.

<sup>1</sup> *A. otus* was included in Robinson's Handlist of birds of the Malay Peninsula (1910) on the strength of a locally obtained specimen in the Raffles Museum, Singapore, but the specimen is no longer extant and we think that perhaps *A. flammeus* was intended.

<sup>2</sup> Cf. Meise, Orn. Monatsber. xli, 1933, p. 169.

<sup>3</sup> Birds from the Malay States are nearer to *ketupu* than to *aagaardi*.

<sup>4</sup> Exact topotypes not seen and the race is therefore maintained here, but birds from Sarawak and Java seem inseparable.

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\***Bubo ketupu büttikoferi** nom. nov.

*Ketupa minor* Büttikofer, Notes Leyd. Mus., xviii, 1896, p. 165 :  
Nias Island, West Sumatra (not *B. minor* Schleg. 1862).

*Distr.*—Nias Island, West Sumatra.

**Bubo coromandus** (Lath.).

Dusky Horned Owl.

[**Bubo coromandus coromandus** (Lath.).

*Strix coromanda* Latham, Ind. Orn. i, 1790, p. 53 : Coromandel Coast.

*Distr.*—Extra-limital.]

**Bubo coromandus klossii** Rob.

*Bubo coromandus klossii* Robinson, Journ. Fed. Mal. States Mus. iv, 1911, p. 246 : Gunong Semanggol, North Perak, Malay States.

*Distr.*—Malay Peninsula.

Genus **HUHUA** Hodgson.

**Huhua sumatrana** (Raffles).

Eagle-Owl.

**Huhua sumatrana sumatrana** (Raffles).

*Strix sumatrana* Raffles, Trans. Linn. Soc. xiii, 1822, p. 279 : Sumatra.

*Bubo orientalis minor* Schleg., Mus. Pays-Bas, Oti, 1862, p. 13 : Banka.

*Distr.*—Malay Peninsula.

Sumatra; Banka.

**Huhua sumatrana strepitans** (Temm.).

*Strix strepitans* Temminck, Pl. Col. 174, 1823 : Batavia, Java.

*Strix orientalis* Horsf. (nec Shaw), Trans. Linn. Soc. xiii, 1821, p. 140 : Java.

*Distr.*—Borneo.<sup>1</sup>

Java; Bali.

Genus **OTUS**<sup>2</sup> Pennant.

**Otus scops** (Linn.).

Scops Owl.

[**Otus scops scops** (Linn.).

*Strix Scops* Linn., Syst. Nat. 10th ed. 1758, p. 92 : Italy.

*Distr.*—Extra-limital.]

<sup>1</sup> We have never been able to compare birds from Borneo and Java, but those from the former locality are less boldly barred below than specimens from the Malay Peninsula and Sumatra.

<sup>2</sup> Revision : Stres., Mitt. Zool. Mus. 1925, p. 191.

**Otus scops malayanus** (Hay).

*Scops Malayanus* Hay, Madr. Jour. Lit. Sci. xiii, pt. 2, 1845, p. 147: Malacca.

*Distr.*—Malay Peninsula.<sup>1</sup>

**Otus scops mantananensis** Sharpe.

*Scops mantananensis* Sharpe, Bull. B.O. Cl. i, 1892, p. 4: Mantanani Island, North-west Borneo.

*Distr.*—Mantanani Island, Borneo.

**Otus spilocephalus** (Blyth).

Mountain Scops Owl.

**[Otus spilocephalus spilocephalus** (Blyth).

*Ephialtes spilocephalus* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 8: Darjeeling.

*Distr.*—Extra-limital.]

**Otus spilocephalus siamensis** Rob. and Kloss.

*Otus luciae siamensis* Robinson & Kloss, Journ. Fed. Mal. States Mus. x, 1922, p. 261: Kao Nong, Bandon, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Otus spilocephalus vulpes** O.-Grant.<sup>2</sup>

*Heteroscoops vulpes* O.-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 11: Gunong Tahan, Pahang, Malay States.

*Distr.*—Malay States.

**Otus spilocephalus stresemanni** Rob.

*Athenoptera spilocephalus stresemanni* Robinson, Bull. Brit. Orn. Cl. xlviii, 1927, p. 127: Korinchi, West Sumatra.

*Distr.*—Sumatra.

**Otus spilocephalus luciae** (Sharpe).

*Scops luciae* Sharpe, Ibis, 1888, p. 478: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Otus spilocephalus angelinae** (Finsch).

*Pisorhina angelinae* Finsch, Orn. Monatsber. xx, 1912, p. 156: West Java.

*Distr.*—Java.

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<sup>1</sup> We cannot confirm the locality "Sumatra" given by Robinson (1927).

<sup>2</sup> Stresemann unites *luciae*, *vulpes*, *stresemanni* and *vandewateri*, but although the species is very variable and the series examined small we are prepared to accept the first three forms as fair average subspecies. In the case of *vandewateri* we are not yet convinced that it is a form of *spilocephalus*.

**Otus vandewateri** (Rob. and Kloss).<sup>1</sup> Vandewater's Scops Owl.

*Pisorhina vandewateri* Robinson and Kloss, Journ. Strs. Br. Roy. Asiat. Soc. lxxiii, 1916, p. 275: Koriuchi Peak, Sumatra.

*Distr.*—Sumatra.

**Otus umbra** (Richm.).<sup>2</sup> Barussan Scops Owl.

\***Otus umbra umbra** Richm.

*Pisorhina umbra* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 494: Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

\***Otus umbra enganensis** Riley.

*Otus umbra enganensis* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 93: Engano Island, West Sumatra.

*Distr.*—Engano Island, West Sumatra.

**Otus bakkamoena** (Penn.). Collared Scops Owl.

[**Otus bakkamoena bakkamoena** (Penn.).

*Otus Bakkamoena* Pennant, Ind. Zool. 1769, p. 3, pl. 3: Ceylon.

*Distr.*—Extra-limital.]

**Otus bakkamoena condorensis** Kloss.

*Otus bakkamoena condorensis* Kloss, Journ. Siam Soc., Nat. Hist. Suppl. viii, 1930, p. 81: Condore Island.

*Distr.*—Peninsular Siam.

**Otus bakkamoena lempiji** (Horsf.).

*Strix Lempiji* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 140: Java.

*Scops javanicus* Less., Traité d'Orn. 1830, p. 107: Java.

*Strix noctula* Temm., Pl. Col. 99, 1821: Java, Sumatra, Banda.

*Distr.*—Malay Peninsula.

Sumatra; Banka; Billiton.

Borneo; North Natuna Islands.

Java; Bali; Kangean Islands.<sup>4</sup>

**Otus bakkamoena mentawi** Chas. and Kloss.

*Otus bakkamoena mentawi* Chasen and Kloss, Ibis, 1926, p. 279: Sipora Island, West Sumatra.

*Distr.*—Siberut and Sipora Islands, Mentawi Group, West Sumatra.<sup>3</sup>

<sup>1</sup> Stresemann places this owl as a synonym of *O. spilocephalus lucia* (= *stresemanni* Rob.), but we are not yet convinced.

<sup>2</sup> Can almost certainly be lumped with one of the other more widely spread Malaysian species, but as we have not seen either *umbra* or *enganensis* we cannot attempt a wider nomenclature.

<sup>3</sup> A small owl, possibly this form, also occurs in the Pagi Islands, Mentawi Group.

<sup>4</sup> The Kangean form is possibly separable: Robinson seemed to think that a Bornean race was separable, but we cannot see any peculiarity in ten specimens from Sarawak.

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**Otus brookii** (Sharpe).

Rajah's Scops Owl.

**Otus brookii brookii** (Sharpe).

*Scops brookii* Sharpe, Bull. B. O. Cl. i, 1892, p. 4: Mt. Dulit, North Sarawak, Borneo.

*Distr.*—Borneo.  
Java.<sup>1</sup>

**Otus brookii solokensis** (Hart.).

*Pisorhina solokensis* Hartert, Bull. Brit. Cl. i, 1893, p. 39: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

**Otus sagittatus** Cass.

Large Malay Scops Owl.

*Ephialtes sagittatus* Cassin, Journ. Acad. Nat. Sci. Philad. iv, 1850: Malacca.

*Distr.*—Malay Peninsula.

**Otus rufescens** (Horsf.).

Reddish Scops Owl.

**Otus rufescens rufescens** (Horsf.).

*Strix rufescens* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 140: Java.

*Scops mantis* "Müll.", Bp., Consp. Gen. Avium, i, 1850, p. 47: Borneo.

*Distr.*—Sumatra; Banka.  
Borneo.  
Java.

**Otus rufescens malayensis** Hach.<sup>2</sup>

*Otus rufescens malayensis* Hachisuka, Birds of Phil., iii, 1934, p. 52: Mt. Ophir, Malacca.

*Distr.*—Malay States.

Genus **NINOX** Hodgson.<sup>3</sup>

**Ninox scutulata** (Raffles).

Hawk-Owl.

**Ninox scutulata scutulata** (Raffles).

*Strix scutulata* Raffles, Trans. Linn. Soc. xiii, 22, p. 280: Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.  
Java.

<sup>1</sup> The Javan form is probably separable.

<sup>2</sup> We only have four specimens of this owl. Two from the Malay States are rather paler and redder than two from Borneo.

<sup>3</sup> Cf. Kloss, Treubia, xiii, 1931, p. 316.

**Ninox scutulata burmanica** Hume.<sup>1</sup>

*Ninox burmanica* Hume, Stray Feathers, iv, 1876, p. 285 : Pegu.

*Distr.*—Malay Peninsula.<sup>2</sup>

**Ninox scutulata malaccensis** (Eyton).

*Athene malaccensis* Eyton, Ann. & Mag. Nat. Hist. xvi, 1845, p. 228 : Malacca.

*Noctua hirsuta minor* Schleg., Mus. Pays-Bas, Av. Noct. 1873, p. 24 : Banka (*by elimination*).

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka.

**Ninox scutulata borneensis** (Bp.).

*Athene borneensis* Bonaparte, Consp. Gen. Avium, 1850, p. 41 : Borneo.

*Ninox labuanensis* Sharpe, Cat. Bds. Brit. Mus. ii, 1875, p. 165 : Labuan Island.

*Distr.*—Borneo; North Natuna Islands.

**Ninox scutulata javanensis** Stres.

*Ninox scutulata javanensis* Stresemann, Orn. Monatsber. xxxvi, 1928, p. 54 : West Java.

*Distr.*—Java (West).

**Ninox forbesi** ScI.

Island Hawk-Owl.

[**Ninox forbesi forbesi** ScI.

*Ninox forbesi* P. L. Sclater, Proc. Zool. Soc. 1883, p. 52, pl. xi : Timor Laut.

*Distr.*—Extra-limital.]

**Ninox forbesi natalis** Lister.

Christmas Island Hawk-Owl.

*Ninox natalis* Lister, Proc. Zool. Soc. 1888, p. 525 : Christmas Island, Indian Ocean.

*Distr.*—Christmas Island.

Genus **STRIX** Linn.

**Strix orientalis** Shaw.<sup>3</sup>

Wood-Owl.

**Strix orientalis orientalis** Shaw.

*Strix orientalis* Shaw, Gen. Zool. vii, 1809, p. 257 : China, error = Cochin China.

*Distr.*—Malay Peninsula.

<sup>1</sup> For the present we regard *japonica* Schleg., and *ussuriensis* Buturlin, as synonyms of *scutulata*, a migratory form in Malaysia. "*N. scutulata*" has also been recorded from the Lingga Archipelago.

<sup>2</sup> Sporadic as far south as Singapore.

<sup>3</sup> Cf. Stres., Orn. Monatsber. xxxii, 1924, p. 111.

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**Strix orientalis seloputo** Horsf.

*Strix Selo-puto* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 140 : Java.

*Strix pagodorum* Temm., Pl. Col. 230, 1823 : Java (*Stresemann, 1924*).  
Distr.—Java.

**\*Strix orientalis baweana** Oberh.

*Strix baweana* Oberholser, Proc. U.S. Nat. Mus. lii, 1917, p. 190 : Bawean Island, Java Sea.

Distr.—Bawean Island.

**Strix leptogrammica**<sup>1</sup> Temm.

Malayan Wood-Owl.

**Strix leptogrammica leptogrammica** Temm.

*Strix leptogrammica* Temminck, Pl. Col. 525, 1831 : Borneo.

Distr.—Borneo; Billiton.

**Strix leptogrammica maingayi** (Hume).

*Syrnium maingayi* Hume, Stray Feathers, vi, 1878, p. 27 : Malacca.

Distr.—Malay Peninsula.

**Strix leptogrammica myrtha** (Bp.).

*Ciccaba myrtha* Bonaparte, Conspectus Gen. Avium, i, 1850, p. 44 : Sumatra.

Distr.—Sumatra.

**\*Strix leptogrammica bartelsi** (Finsch).

*Syrnium Bartelsi* Finsch, Bull. Brit. Orn. Cl. xvi, 1906, p. 63 : West Java.

Distr.—Java (west and central).

**\*Strix leptogrammica nyctiphasma** Oberh.

*Strix leptogrammica nyctiphasma* Oberholser, Journ. Wash. Acad. Sci. xiv, 1924, p. 302 : Bangkaru Island, Banjak Islands, West Sumatra.

Distr.—Banjak Islands, West Sumatra.

**\*Strix leptogrammica niasensis** (Salvad.).

*Syrnium niasense* Salvadori, Ann. Mus. Civ. Gen. (2), iv, 1887, p. 526 : Nias Island.

Distr.—Nias Island, West Sumatra.

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<sup>1</sup> Cf. Stres., Orn. Monatsber. xxxii, 1924, p. 110.



Genus **GLAUCIDIUM** Boie.<sup>1</sup>

**Glaucidium brodiei** (Burt.). Pygmy Owlet.

[**Glaucidium brodiei brodiei** (Burt.).

*Noctua Brodiei* Burton, Proc. Zool. Soc. for 1835, 1836, p. 152 :  
Himalayas

*Distr.*—Extra-limital.]

**Glaucidium brodiei tubiger** (Hodgs.).

*Noctua tubiger* Hodgson, Asiat. Res. xix, 1836, p. 175 : Nepal.

*Distr.*—Malay Peninsula.

**Glaucidium brodiei sylvaticum** (Bp.).

*Athene sylvatica* Bonaparte, Cons. Gen. Av. 1850, p. 40 : Padang  
Highlands, Sumatra.

*Distr.*—Sumatra.

**Glaucidium brodiei borneense** Sharpe.

*Glaucidium borneense* Sharpe, Bull. Brit. Orn. Cl. i, 1893, p. 55 :  
Mt. Kalulong, Sarawak, Borneo.

*Distr.*—Borneo.

**Glaucidium cuculoides** (Vig.). Barred Owlet.

[**Glaucidium cuculoides cuculoides** (Vig.).

*Noctua cuculoides* Vigors, Proc. Zool. Soc. 1830-31, 1831, p. 8 :  
Himalayas.

*Distr.*—Extra-limital.]

**Glaucidium cuculoides castanopterum** (Horsf.).

*Strix castanoptera* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 140 :  
Java.

*Distr.*—Java; Bali.

Family **TYTONIDÆ**.

Genus **TYTO**<sup>2</sup> Billberg.

**Tyto alba** (Scop.). Barn Owl.

[**Tyto alba alba** Scop.

*Strix alba* Scopoli, Annus. i, Hist. Nat. 1769, p. 21 : North Italy.

*Distr.*—Extra-limital.]

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<sup>1</sup> *G. radiatum* (Tick.), is supposed to have been obtained by Cantor in Kedah, but we believe a mistake in labelling has occurred and do not admit the species to the Malayan list.

<sup>2</sup> Revision : Hart., Nov. Zool. xxxix, 1934, p. 151.

**Tyto alba javanica** (Gmel.).

*Strix javanica* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 295: Java.

*Distr.*—Malay States.<sup>1</sup>

Java; Thousand Islands; Kangean Islands.

Genus **PHODILUS** Geoffr. St. Hilaire.

**Phodilus badius**<sup>2</sup> (Horsf.).

Bay Owl.

**Phodilus badius badius** (Horsf.).

*Strix badia* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 139: Java.

*Phodilus badius abbotti* Oberh., Proc. Acad. Sci. Wash. xiv, 1924, p. 302: Province Wellesley, Malay Peninsula.

*Distr.*—Malay States.

Sumatra; Billiton; Nias Island.

Borneo.

Java; Bali.

**\*Phodilus badius arixuthus** Oberh.

*Phodilus badius arixuthus* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 40: Bunguran Island, North Natuna Islands.

*Distr.*—Bunguran Island, Natuna Islands.

Family LORIIDÆ.

Genus **TRICHOGLOSSUS** Stephens.

**Trichoglossus ornatus** (Linn.).

Lorikeet.

[**Trichoglossus ornatus ornatus** (Linn.).

*Psittacus ornatus* Linn., Syst. Nat. 10th ed. 1758, p. 98: America error = Celebes.

*Distr.*—Extra-limital.]

**\*Trichoglossus ornatus mitchellii** Gray.

*Trichoglossus mitchellii* Gray, List. Psitt. Brit. Mus. 1859, p. 62: Lombok.

*Distr.*—Bali.

<sup>1</sup> No definite record for Peninsular Siam: of very doubtful occurrence in Sumatra and Borneo.

<sup>2</sup> Revision: Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 40; Robinson, Bull. Brit. Orn. Cl. xlvii, 1927, p. 121.

## Family KAKATCEIDÆ.

### Genus KAKATOE Cuvier.

**Kakatoë sulphurea** (Gmel.). White Cockatoo.

[**Kakatoë sulphurea sulphurea** (Gmel.).

*Psittacus sulphureus* Gmelin, Syst. Nat. 1, pt. i, 1788, p. 330 : Celebes.

*Distr.*—Extra-limital.]

\***Kakatoë sulphurea abbotti** Oberh.\*

*Kakatoë parvulus abbotti* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 181 : Solombo Besar Island, Java Sea.

*Distr.*—Solombo Besar Island; Java Sea.

## Family PSITTACIDÆ.

### Genus TANYGNATHUS Wagler.

**Tanygnathus lucionensis** (Linn.). Phillipine Paroquet.

**Tanygnathus lucionensis lucionensis** (Linn.).

*Psittacus lucionensis* Linn., Syst. Nat. 12th. ed. 1, 1766, p. 146 : Philippine Islands.

*Tanygnathus salvadorii* O.-Grant, Ibis. 1896, p. 562 : Mantanani Island.

*Tanygnathus lucionensis horisonus* Bangs and Peters, Occ. Pap. Boston Soc. Nat. Hist. v, 1927, p. 236 : Maratua Island.

*Distr.*—Mantanani Island, North-west Borneo; Maratua Island, East Borneo.<sup>2</sup>

### Genus PSITTACULA<sup>3</sup> Cuvier.

**Psittacula alexandri** (Linn.). Red-breasted Paroquet.

**Psittacula alexandri alexandri** (Linn.).

*Psittacus Alexandri* Linn., Syst. Nat. 10th. ed. 1, 1758, p. 97 : Java (Hartert, 1902).

*Psittacus javanicus* Forst. in Osb., Voy. China, i, 1771, p. 156 : Java.

*Psittacus bimaclulatus* Sparrm., Mus. Carls. ii, 1787, No. xxx : Java.

*Psittacus Osbeckii* Lath., Ind Orn. i, 1790, p. 87 : Java.

*Distr.*—Java, Bali, Kangean Islands; Borneo (south).

<sup>1</sup> A Cockatoo of this group is also found in Bali where it has no doubt been introduced : Stresemann identifies it as *occidentalis* Hartert of Lombok. A comparison between *occidentalis* and *abbotti* is needed.

<sup>2</sup> We cannot separate birds from Maratua and Mantanani Islands from *lucionensis* of Luzon. This parrot has been introduced into many parts of its present range. A specimen from Lawas on the mainland of N. Borneo, in the British Museum, we regard as an introduced bird.

<sup>3</sup> Revision : Snouck. v. Schaub., Alauda, 1933, p. 307.

**Psittacula alexandri dammermani** Chas. and Kloss.

*Psittacula alexandri dammermani* Chasen and Kloss, Treubia, xiv, 1933, p. 168: Karimon-Java Island, Java Sea.

*Distr.*—Karimon-Java Island.

**Psittacula alexandri fasciata** (Müll.).

*Psittacus fasciatus* P. L. S. Müller, Natursyst. Suppl. 1776, p. 74: Pondicherry.

*Distr.*—Peninsular Siam.

**\*Psittacula alexandri cala** (Oberh.).

*Conurus fasciatus calus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 4: Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**\*Psittacula alexandri major** (Richm.).

*Palæornis major* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 188: Babi Island, West Sumatra.

*Distr.*—Babi and Lasia Islands, West Sumatra.

**\*Psittacula alexandri perionca** (Oberh.).

*Conurus fasciatus perioncus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 4: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**Psittacula longicauda** (Dodd.).

Long-tailed Paroquet.

**Psittacula longicauda longicauda** (Bodd.).

*Psittacus longicauda* Boddaert, Tabl. Planch. Enlum. 1783, p. 53: Malacca.

*Psittacus malaccensis* Gmel., Syst. Nat. i, 1788, p. 325: Malacca.

*Psittacus erubescens* Shaw, Gen. Zool. viii, 2, 1812, p. 437: Malacca.

*Psittacus barbatulatus* Bechst. in Lath, Vögel, iv, 1, 1811, p. 77: Malacca.

*Conurus erythrogenys* Lesson, Traité d'Orn. 1830, p. 215: no loc. = Malacca.

*Palæornis viridimystax* Blyth, Journ. Asiat. Soc. Bengal, xxv, 1856, p. 446: no loc. = Malacca.

*Distr.*—Malay States; Anamba Islands.

Sumatra; Banka; Billiton.

Borneo.

**Psittacula longicauda defontainei** Chas.

*Psittacula longicauda defontainei* Chasen, Bull. Raffles Mus. ix, 1934, p. 93: Bunguran Island, North Natuna Islands.

*Distr.*—Bintang Island; Rhio Archipelago.<sup>1</sup>

Natuna Islands; Karimata Islands.

<sup>1</sup> This parrot occurs on other islands in the Rhio Archipelago, but we have no specimens and cannot give the exact range of the large race, *defontainei*.

PSITTACIDÆ.

**Psittacula longicauda modesta** (Fraser).

*Palæornis modestus* Fraser, Proc. Zool. Soc. 1845, p. 16: no loc.  
=Engano Island.

*Palæornis lucianæ* Verr., Rev. Mag. Zool. 1850, p. 598, pl. 13: no loc.=Engano.

*Palæornis erythrogenys* (nec Lesson), Proc. Zool. Soc. 1850, p. 245: no loc.=Engano.

*Palæornis fraseri* Moore, Cat. Birds Mus. East Ind. Coy. 2, 1856-58, p. 621 (note): new name for *P. erythrogenys* Fraser.

*Distr.*—Engano Island, West Sumatra.

Genus **PSITTINUS** Blyth.

**Psittinus cyanurus** (Forst.).

Little Malay Parrot.

**Psittinus cyanurus cyanurus** (Forst.).

*Psittacus cyanurus* Forster, Indische Zool. 1795, p. 6: Malacca.

*Psittacus malaccensis* (nec Gmel.), Lath., Ind. Orn. i, 1790, p. 130: Malacca.

*Psittacus incertus* Shaw and Nodd., Nat. Misc. xix, 1807, pl. 769: India *errore*=Malacca.

*Psittacus macropterus* Kuhl, Nova Acta Phys. Acad. Leop. Carol. x, 1820, p. 6: as syn. of *P. malaccensis* Lath.

*Psittacula reticulata* Less., Traité d'Orn. 1830, p. 204: no loc.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo.

\***Psittinus cyanurus abbotti** Richm.

*Psittinus abbotti* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 188: Simalur Island, West Sumatra.

*Distr.*—Simalur and Siumat Island (near Simalur), West Sumatra.

**Psittinus cyanurus pontius** Oberh.

*Psittinus cyanurus pontius* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 5: South Pagi Island, West Sumatra.

*Distr.*—Mentawi Islands (Siberut, Sipora, South Pagi), West Sumatra.

Genus **LORICULUS** Blyth.

**Loriculus vernalis** (Sparrm.).

Indian Loriquet.

**Loriculus vernalis vernalis** (Sparr.).

*Psittacus vernalis* Sparrman, Mus. Carls. 1787, no. xix: no locality.

*Distr.*—Peninsular Siam.<sup>1</sup>

<sup>1</sup> Of doubtful occurrence in the north of the Malay States.

**Loriculus vernalis pusillus** Schleg.

*Loriculus pusillus*. "G. R. Gray" Schlegel, Mus. Pays—Bas, iii, Psittaci, 1864, p. 132 : Java.

*Coryllis javanica* Finsch, Papag. ii, 1868, p. 64 : Java.

Distr.—Java; Bali.

**Loriculus galgulus** (Linn.).

Malay Loriquet.

**Loriculus galgulus galgulus** (Linn.).

*Psittacus Galgulus* Linn., Syst. Nat. 10th ed. 1758, p. 103 : India error = Malacca.

*Psittacus pumilus* Scop., Del. Flor. et Faun. Insubr. 1786, p. 87 : Malacca.

*Psittacula cyaneopileata* Bourj., Perr. 1837-38, pl. 88 : Malacca.

*Loriculus galgulus lamprochlorus* Oberh., Smiths. Misc. Coll. lx, 7, 1912, p. 5 : Nias Island, West Sumatra.

Distr.—Malay Peninsula (rare in north); Anamba Islands (*vis.*) : Sumatra; Rhio Archipelago; Banka; Billiton; West Sumatran Islands of Banjak group, Nias and Mentawi group. Borneo; North Bornean Islands; Maratua Islands.

\***Loriculus galgulus dolichopterus** Oberh.

*Loriculus galgulus dolichopterus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 5 : Engano Island, West Sumatra.

Distr.—Engano Island, West Sumatra.

## Family PODARGIDÆ.

### Genus **BATRACHOSTOMUS** Gould.

**Batrachostomus auritus** (Gray).

Large Frogmouth.

*Podargus auritus* J. E. Gray, in Griffith ed. Cuv. Anim. King. ii, 1829, p. 114 : Sumatra.

*Bombycistomas fullertonii* Hay, Journ. Asiat. Soc. Beng. 1841, p. 574, woodcut : Sumatra.

Distr.—Malay States.

Sumatra.

Borneo; North Natuna Islands.

**Batrachostomus poliolophus** Hartert.

Hartert's Frogmouth.

*Batrachostomus poliolophus* Hartert, Notes Leyd. Mus. 1892, p. 63 : Padang, West Sumatra.

Distr.—Sumatra.

**Batrachostomus harterti** Sharpe.

Dulit Frogmouth.

*Batrachostomus harterti* Sharpe, Ibis, 1892, p. 323 : Mt. Dulit, Sarawak.

Distr.—Borneo.

**Batrachostomus stellatus** (Gould). Gould's Frogmouth.

*Podargus stellatus* Gould, Proc. Zool. Soc. 1837, p. 43 : Malacca.

*Podargus parvulus* Schleg., Journ. f. Ornith. 1856, p. 460 : Borneo.

*Batrachostomus stictopterus* Cab. and Heine, Mus. Hein. ii, 1860, p. 124 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos.

Borneo; North Natuna Islands.

**Batrachostomus mixtus** Sharpe.<sup>1</sup> Sharpe's Frogmouth.

*Batrachostomus mixtus* Sharpe, Bull. Brit. Orn. Cl. i, 1892, p. 4 :

Mt. Dulit, Sarawak.

*Distr.*—Borneo.

**Batrachostomus javensis** (Horsf.). Horsfield's Frogmouth.

*Podargus Javensis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 141 :

Java.

*Podargus cornutus* Temm., Pl. Col. 159, 1823 : Sumatra.

*Batrachostomus adspersus* Brügg., Ann. Mag. Nat. Hist. (4) xx, 1877, p. 178 : Borneo.

*Distr.*—Sumatra.

Borneo.

Java.

**Batrachostomus affinis** Blyth. Blyth's Frogmouth.

*Batrachostomus affinis* Blyth, Journ. Asiat. Soc. Beng., 1847, p.

1180 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo; Banguet Island, North Borneo.

## Family CORACIIDÆ.

### Genus CORACIAS Linn.

**Coracias benghalensis** (Linn.). Indian Roller.

[*Coracias benghalensis benghalensis* (Linn.).

*Corvus benghalensis* Linn., Syst. Nat. 10th ed. 1758, p. 106 : Bengal.

*Distr.*—Extra-limital.]

**Coracias benghalensis affinis** Horsf.

*Coracias affinis* Horsfield, Proc. Zool. Soc. for 1839, 1840, p. 164 :

Assam.

*Distr.*—Malay Peninsula.<sup>2</sup>

<sup>1</sup> Perhaps only a phase of *B. affinis*.

<sup>2</sup> I have seen this roller in Kelantan near the Trengganu border (June).

Genus **EURYSTOMUS**<sup>1</sup> Vieillot.

**Eurystomus orientalis** (Linn.). Broad-billed Roller.

**Eurystomus orientalis orientalis** (Linn.).<sup>2</sup>

*Coracias orientalis* Linn., Syst. Nat. 12th ed. 1, 1766, p. 159: Java.

*Eurystomus fuscicapillus* Vieill., Nouv. Dict. d'Hist. Nat. xxix, 1819, p. 426: India.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Billiton; Simalur Island, West Sumatra.

Borneo; North Borneo Islands.

Java; Bali.

**Eurystomus orientalis calonyx** Sharpe.

*Eurystomus calonyx* Sharpe, Proc. Zool. Soc. 1890, p. 551: Nepal.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; West Sumatran Islands of  
Simalur and Sipora; Billiton.

Borneo; North Bornean Islands; North Natuna Islands.

Java; Bali.

**Eurystomus orientalis connectens** Stres.

*Eurystomus orientalis connectens* Stresemann, Nov. Zool. xx, 1913,  
p. 302: Moa Island.

*Distr.*—Kangean Islands.

Family **ALCEDINIDÆ**.<sup>3</sup>

Genus **RAMPHALCYON**<sup>4</sup> Reichenbach.

**Ramphalcyon amauroptera** (Pears.). Brown-winged Stork-billed.  
Kingfisher.

*Halcyon amauropterus* Pearson, Journ. Asiat. Soc. Beng. x, 1841,  
p. 635: Calcutta.

*Distr.*—Malay Peninsula (south to Langkawi Islands).

**Ramphalcyon capensis** (Linn.). Stork-billed Kingfisher.

**Ramphalcyon capensis capensis** (Linn.).

*Alcedo capensis* Linn., Syst. Nat. 12th. ed. 1, 1766, p. 180: Java.

*Pelargopsis fraseri* Sharpe, Proc. Zool. Soc. 1870, p. 65: Java.

*Distr.*—Java.

<sup>1</sup> Stres., Nov. Zool. xx, 1913, p. 297.

<sup>2</sup> The species has also been recorded from Nias, the Thousand Islands and the Karimon-Java Islands. Birds from these localities might belong to either *calonyx* or *orientalis*.

<sup>3</sup> Cf. Laub., Arch. f. Naturgesch. 1924, p. 55.

<sup>4</sup> Revision: Oberh., Proc. U.S. Nat. Mus. xxxv, 1909, p. 657.



**Ramphalcyon capensis malaccensis** Sharpe.<sup>1</sup>

*Pelargopsis malaccensis* Sharpe, Proc. Zool. Soc. 1870, p. 67 : Malacca.

*Ramphalcyon capensis hydrophila* Oberholser, Proc. U.S. Nat. Mus. xxxv, 1909, p. 677 : Singapore Island.

*Distr.*—Malay Peninsula.

Rhio Archipelago; Lingga Archipelago.

**Ramphalcyon capensis cyanopteryx** Oberh.<sup>2</sup>

*Ramphalcyon capensis cyanopteryx* Oberholser, Proc. U.S. Nat. Mus. xxxv, 1909, p. 676 : Tapanuli Bay, North-west Sumatra.

*Ramphalcyon capensis arignota* Oberh., Proc. Biol. Soc. Wash. xxxvii, 1924, p. 136 : Indragiri River, South-east Sumatra.

*Distr.*—Sumatra; Banka; Billiton; Mansalar Island, west coast of Sumatra.

**\*Ramphalcyon capensis simalurensis** (Richm.).

*Pelargopsis simalurensis* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 498 : Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**\*Ramphalcyon capensis sodalis** (Richm.).

*Pelargopsis sodalis* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 499 : Tuangku Island, Banjak Islands, West Sumatra.

*Distr.*—Banjak Islands, West Sumatra.

**\*Ramphalcyon capensis nesoeca** Oberh.

*Ramphalcyon capensis nesoeca* Oberholser, Proc. U.S. Nat. Mus. xxxv, 1909, p. 674 : Nias Island.

*Distr.*—Nias Island and Batu Islands, West Sumatra.

**Ramphalcyon capensis isoptera** Oberh.

*Ramphalcyon capensis isoptera* Oberholser, Proc. U.S. Nat. Mus. xxxv, 1909, p. 671 : Sikakap Strait, Pagi Islands, West Sumatra.

*Distr.*—Mentawi Islands (Siberut, Sipora, Pagi Islands), West Sumatra.

<sup>1</sup> It is difficult to draw a line between *burmanica* as represented by specimens from Siam and *malaccensis* and there is a large intermediate zone. With fair series before us it seems just possible to separate the two forms at the Isthmus of Kra.

<sup>2</sup> In both North and South Sumatra birds inseparable from both *malaccensis* and *javana* occur. The Sumatran race seems in fact exactly intermediate and we recognize it because we have seen no ochraceous headed birds from the Malay Peninsula, or dark headed birds from Borneo.

# ALCEDINIDÆ.

## **Ramphalcyon capensis javana** (Bodd.).

*Alcedo javana* Boddaert, Tabl. Planch. Enlum. 1783, p. 47: Java error=Borneo.

*Alcedo leucocephala* Gmel., Syst. Nat. i, pt. 1, 1788, p. 456: Java error=Borneo.

*Alcedo javanica* Shaw, Gen. Zool. viii, 1812, p. 67: Java error=Borneo.

*Ramphalcyon capensis innominatu* van Oort, Notes Leyd. Mus. xxxii, 1910, p. 126: Borneo.

*Distr.*—Borneo.

## **Ramphalcyon capensis floresiana** (Sharpe).

*Pelargopsis florissiana* Sharpe, Proc. Zool. Soc. 1870, p. 68: Flores.

*Distr.*—Bali.

## Genus **ALCEDO** Linn.

## **Alcedo atthis**<sup>1</sup> (Linn.).

Common Kingfisher.

[**Alcedo atthis atthis** Linn.

*Gracula Atthis* Linn., Syst. Nat. 10th ed. 1758, p. 109: Egypt.

*Distr.*—Extra-limital.]

## **Alcedo atthis bengalensis** Gmel.

*Alcedo bengalensis* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 450: Bengal.

*Alcedo bengalensis* a. *indica*, b. *sondaica* Reichb., Handb. spec. Orn. Invest. Alcedinæ, 1851, p. 3: loc. of b. Java, etc.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; West Sumatran islands of Simalur, Banjak Group, Nias and Siberut.

Borneo; Natuna Islands; Karimata Islands.

Java.

## **Alcedo atthis floresiana** Sharpe.

*Alcedo floresiana* Sharpe, Cat. Birds Brit. Mus. xvii, 1892, p. 151: Flores.

*Distr.*—Bali.

## **Alcedo euryzona** Temm.

Broad-zoned Kingfisher.

## **Alcedo euryzona euryzona** Temm.

*Alcedo cryzona* (sic) Temminck, text to Pl. Col. 508, 1830: Java.

*Distr.*—Java.

Sumatra.

Borneo.

<sup>1</sup> Cf. Stres., Nov. Zool. xx, 1913, p. 313.

**Alcedo euryzona nigricans** Blyth.<sup>1</sup>

*Alcedo nigricans* Blyth, Journ. Asiat. Soc. Beng. xvi, 1847, p. 1180 :  
Malacca.

*Distr.*—Malay Peninsula.

**Alcedo meninting**<sup>2</sup> Horsf.

Deep-Blue Kingfisher.

**Alcedo meninting meninting** Horsf.

*Alcedo meninting* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 172 :  
Java.

*Alcedo megarrhynchus* Hart., Vog. Mus. Senck. Gesell. 1891, p. 134 :  
as syn. of *meninting*.

*Distr.*—Java; Bali.

**Alcedo meninting verreauxii** De La Berge.<sup>3</sup>

*Alcedo Verreauxii* De La Berge, Rev. Mag. Zool. 1851, p. 305, pl. 9 :  
Borneo.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton.  
Borneo.

**\*Alcedo meninting subviridis** Oberh.

*Alcedo meninting subviridis* Oberholser, Smiths. Misc. Coll. lx, 7,  
1912, p. 7 : Nias Island, West Sumatra.

*Distr.*—Banjak Islands and Nias Island, West Sumatra.

**\*Alcedo meninting callima** Oberh.

*Alcedo meninting callima* Oberholser, Smiths. Misc. Coll. lx, 7,  
1912, p. 7 : Tana Bala Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

**Alcedo meninting proxima** Richm.

*Alcedo meninting proxima* Richmond, Proc. Biol. Soc. Wash. xxv,  
1912, p. 104 : North Pagi Island, West Sumatra.

*Distr.*—Mentawi Islands (Sipora; North Pagi) West Sumatra.

<sup>1</sup> Males from the Malay Peninsula seem to have the underparts more washed with rufous than those from Java and Borneo.

<sup>2</sup> Revisions : Laub., Orn. Monatsber. xxiii, 1915, p. 167; Baker, Bull. B. O. Cl. xxxix. 1919, p. 36.

<sup>3</sup> *A. m. scintillans* Baker is said to occur in Peninsular Siam, but a specimen from Junk Zeylon is certainly not *scintillans*. *Verrauxii* is rather smaller than typical *meninting* which, in the east of Java, is also rather less blue.

**Alcedo coerulescens**<sup>1</sup> Vieill. Small Blue Kingfisher.

*Alcedo coerulescens* Vieillot, Nouv. Dict. d'Hist. Nat. xix, 1818, p. 401: Timor error=Java (*Laubmann*, 1916).

*Alcedo beryllina* Vieill., Nouv. Dict. d'Hist. Nat. xix, 1818, p. 414: Java

*Alcedo biru* Horsf., Trans. Linn. Soc. xiii, 1821, p. 172: Java.

*Distr.*—Java, Bali and Kangean Islands.

Genus **CEYX**<sup>2</sup> Lacépède.

**Ceyx erithacus** (Linn.). Three-toed Kingfisher.

**Ceyx erithacus erithacus** (Linn.).

*Alcedo erithaca* Linn., Syst. Nat. 10th ed. 1758, p. 115: Bengal.

*Ceyx enopopygius* Oberh., Smiths. Misc. Coll. lx, 7, 1912, p. 7: Aru Bay, East Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Aroa Islands (Straits of Malacca).

**Ceyx erithacus motleyi** Chas. and Kloss.

*Ceyx erithacus motleyi* Chasen and Kloss, Journ. f. Orn. 1929, ii, p. 106: Bettotan near Sandakan, British North Borneo.

*Distr.*—Borneo; North Bornean Islands; Nias Island, West Sumatra.

**Ceyx rufidorsus** Strickland. Red-backed Three-toed Kingfisher.

*Ceyx rufidorsa* Strickland, Proc. Zool. Soc. 1846, p. 99: Malacca.

*Ceyx dillwynni* Sharpe, Proc. Zool. Soc. 1868, p. 593: Labuan, North-west Borneo.

*Ceyx innominatus* Salvad., Att. R. Accad. Sci. Torino, iv, 1869, p. 465: Java.

*Ceyx sharpei* Salvad., Att. R. Accad. Sci. Torino, iv, 1869, p. 463: Sarawak.

*Ceyx euerythra* Sharpe, Cat. Bds. Brit. Mus. xvii, 1892, p. 179: Malacca.

*Ceyx rufidorsus robusta* Parrot, Abh. Kon. Bay. Akad. Wiss. xxiv, 1907, p. 208: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Lingga Archipelago; Banka; Billiton; West Sumatran Islands of Batu group; Siberut and Sipora in Mentawi group.<sup>3</sup>

Borneo; North Natuna Islands.

Java; Bali; Kangean Islands; Bawean Island.

<sup>1</sup> Cf. Laub., Orn. Monatsber., xxiv, 1916, p. 6.

<sup>2</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 98, 1917, p. 23; Laub., Orn. Monatsber. xxxi, 1923, p. 89; Chas. and Kl., Journ. f. Ornith. 1929, p. 106.

<sup>3</sup> Perhaps also on Simalur and islands of the Banjak group, West Sumatra.

Genus **LACEDO** Reichenbach.**Lacedo pulchella** (Horsf.). Banded Kingfisher.**Lacedo pulchella pulchella** (Horsf.).*Dacelo pulchella* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 175 : Java.*Dacelo buccoides* Temm., Pl. Col. 586, 1835 : Sumatra (*Laubmann, 1924*).*Distr.*—Malay States.

Sumatra; Rhio Archipelago.

North Natuna Islands.

Java.

**Lacedo pulchella amabilis** (Hume).*Carcineutes amabilis* Hume, Stray Feath. i, 1873, p. 474 : Pegu.*Distr.*—Peninsular Siam.**Lacedo pulchella melanops** (Bp.).*Halcyon melanops* Bonaparte, Consp. Gen. Av. 1, 1850, p. 154 : Borneo.*Distr.*—Banka Island.

Borneo.

Genus **HALCYON** Swainson.**Halcyon coromanda**<sup>1</sup> (Lath.). Ruddy Kingfisher.**Halcyon coromanda coromanda** (Lath.).*Alcedo coromanda* Latham, Ind. Orn. i, 1790, p. 252 : Rangoon (*Oberholser, 1915*).*Distr.*—Malay Peninsula (south to Johore).

Sumatra (north-east).

**Halcyon coromanda minor** Temm. and Schleg.*Alcedo (Halcyon) coromanda minor* Temminck and Schlegel, Siebolds Fauna Japon., Aves, 1848, p. 76 : Pontianak, Borneo (*Oberholser, 1915*).*Entomophora coromanda neophora* Oberholser, Proc. U.S. Nat. Mus. xlviii, 1915, p. 646 : Tapanuli Bay, North-west Sumatra.*Entomophora coromanda pagana* Oberholser, Proc. U.S. Nat. Mus. xlviii, 1915, p. 648 : North Pagi Island, West Sumatra.*Distr.*—Borneo.

Malay Peninsula (extreme south); Tioman Archipelago;

Rhio Archipelago; Banka; Billiton; Batu and Mentawi

Islands, West Sumatra.<sup>2</sup>

Sumatra (south and west).

Java.

<sup>1</sup> Revision : Oberh., Proc. U.S. Nat. Mus. xlviii, 1915, p. 639; Kloss, Journ. F.M.S. Mus. x, 1921, p. 216.<sup>2</sup> This is no doubt the form occurring on Simalur, Lasia and Nias Islands, West Sumatra. We have also included the Tioman race under *minor*, but we have only seen young birds and their identification is doubtful.

**Halcyon smyrnensis** (Linn.). White-breasted Kingfisher.

[**Halcyon smyrnensis smyrnensis** (Linn.).

*Alcedo smyrnensis* Linn., Syst. Nat. 10th ed. 1758, p. 116 Smyrna.

*Distr.*—Extra-limital.]

**Halcyon smyrnensis fusca** (Bodd.).

*Alcedo fusca* Boddaert, Tabl. Planch. Enlum. 1783, p. 54; based on Pl. Enlum. 894: Malabar.

*Halcyon perpulchra* Madarász, Ann. Mus. Hung. ii, 1904, p. 85: Singapore.

*Distr.*—Malay Peninsula.

**Halcyon cyanoventris** (Vieill.). Javan Kingfisher.

*Alcedo cyanoventris* Vieillot, Nouv. Dict. d' Hist. Nat. xix, 1818, p. 412: Java.

*Alcedo melanoptera* Horsf., Trans. Linn. Soc. xiii, 1821, p. 174: Java.

*Alcedo omnicolor* "Reinw.", Temm., Pl. Col. 135, 1822: Java.

*Distr.*—Java; Bali.

**Halcyon pileata** (Bodd.). Black-capped Kingfisher.

*Alcedo pileata* Boddaert, Tabl. Planch. Enlum. 1783, p. 41: China.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; West Sumatran Island of Simalur.<sup>1</sup>

Borneo; North Natuna Islands.

**Halcyon sancta** Vig. and Horsf. Sacred Kingfisher.

**Halcyon sancta sancta** Vig. and Horsf.

*Halcyon sanctus* Vigors and Horsfield, Trans. Linn. Soc. xv, 1827, p. 206: Australia.

*Distr.*—Sumatra; Billiton; Mendanau.

Borneo (south).

Java; Bali; Kangean Islands; Karimon-Java Islands.

**Halcyon chloris**<sup>2</sup> (Bodd.). White-collared Kingfisher.

[**Halcyon chloris chloris** (Bodd.).

*Alcedo Chloris* Boddaert, Tabl. Pl. Enlum. 1783, p. 49: Buru Island, Moluccas.

*Distr.*—Extra-limital.]

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<sup>1</sup> Also visual records from West Sumatran Islands of Babi and the Mentawi group.

<sup>2</sup> Revision: Oberh., Proc. U.S. Nat. Mus. lv, 1919, p. 351; Kloss, Journ. F.M.S. Mus. x, 1921, p. 214; Laub., Verh. Ornith. Bay. xv, 1923, p. 383.

**Halcyon chloris humii** Sharpe.

*Halcyon humii* Sharpe, Cat. Bds. Brit. Mus. xvii, 1892, p. 281, pl. 8: Selangor, Malay Peninsula.

*Distr.*—Malay Peninsula; Tioman Archipelago.  
Sumatra (north-east).

**Halcyon chloris cyanescens** (Oberh.).

*Sauropatis chloris cyanescens* Oberholser, Proc. U.S. Nat. Mus. lii, 1917, p. 189: Taya Island, off south-east coast of Sumatra.

*Sauropatis chloris palmeri* Oberh., Proc. U.S. Nat. Mus. lv, 1919, p. 369: Java.

*Distr.*—Anamba Islands; Tambelan Islands; Saddle Island.  
Sumatra (south-east and south); Rhio Archipelago; Lingga Archipelago; Banka; Billiton; Mendanau.  
Borneo; North Bornean Islands; Maratua Islands; North and South Natuna Islands; Karimata Islands.  
Java; Bali; Bawean Island; Thousand Islands; Karimon-Java Islands; Solombo Besar Island.

**Halcyon chloris chloroptera** (Oberh.).

*Sauropatis chloris chloroptera* Oberholser, Proc. U.S. Nat. Mus. 1919, p. 379: Simalur Island, West Sumatra.

*Sauropatis chloris amphirya* Oberh., Proc. U.S. Nat. Mus. lv, 1919, p. 382: Nias Island, West Sumatra.

*Distr.*—Sumatra (north-west); West Sumatran islands of Simalur, Nias, Siberut and the Pagi Islands.

**Halcyon chloris azela** (Oberh.).

*Sauropatis chloris azela* Oberholser, Proc. U.S. Nat. Mus. lv, 1919, p. 377: Engano Island, West Sumatra.

*Distr.*—Engano Island, West Sumatra.

**Halcyon concreta** (Temm.).

Chestnut-collared Kingfisher.

**Halcyon concreta concreta** (Temm.).

*Dacelo concreta* Temm., Pl. Col. 346, 1825: Sumatra.

*Halcyon varia* Eyton, Proc. Zool. Soc. 1839, p. 101: Malaya=Malacca *restr.*

*Distr.*—Malay Peninsula.  
Sumatra; Banka; Billiton.

**Halcyon concreta borneana** Chas. and Kloss.

*Halcyon concreta borneana* Chasen and Kloss, Bull. Raff. Mus. 4, 1930, p. 24: near Sandakan, North Borneo.

*Distr.*—Borneo.

## Family BUCEROTIDÆ.

## Genus BUCEROS Linn.

**Buceros rhinoceros** Linn. Rhinoceros Hornbill.**Buceros rhinoceros rhinoceros** Linn.*Buceros Rhinoceros* Linn., Syst. Nat. 1, 1758, p. 104: India = Malacca.*Buceros sumatrana* Schleg. and Müll., Verh. Nat. Gesch. Zool. 1840, Aves, p. 22: Sumatra.*Buceros indica* Schleg. and Müll., Verh. Nat. Gesch. Zool. 1840, Aves, p. 22: Seringapatam error = Malacca.*Buceros sublunatus* "Temm", Bp., Consp. Gen. Av., i, 1850, p. 90: new name for *B. indica*.*Distr.*—Malay Peninsula.

Sumatra; ?Rhio Archipelago; Billiton.

**Buceros rhinoceros borneoensis** Schl. and Müll.*Buceros Borneoensis* Schlegel and Müller, Verh. Nat. Gesch. Zool. 1840, Aves, p. 22: Barito River, South-east Borneo (*restr.* Chasen and Kloss, 1930).*Buceros rhinocerooides* Bp., Consp. Gen. Av. i, 1950, p. 89: new name for *B. borneoensis*.*Distr.*—Borneo.**Buceros rhinoceros silvestris** Vieill.*Buceros silvestris* Vieillot, Nouv. Dict. d'Hist. Nat. iv, 1817, p. 592: Moluccas error = Java (*Stres.*).*Buceros diadematus* Dumont, Dict. Sc. Nat. vi, 1817, p. 203: Java.*Buceros lunatus* Temm., Pl. Col. 546, 1834: Java.*Buceros javanica* Schl. and Müll., Verh. Nat. Gesch. Zool. 1840, Aves, p. 22: Java.*Distr.*—Java.

## Genus DICHOCEROS Gloger.

**Dichoceros bicornis** (Linn.). Great or Homrai Hornbill.*Buceros bicornis* Linn., Syst. Nat. 10th ed. 1758, p. 104: China error = Sumatra.<sup>1</sup>*Buceros cristatus* Vieill., Nov. Dict. d'Hist. Nat. iv, 1816, p. 591: Batavia error = Sumatra.*Distr.*—Malay Peninsula.

Sumatra.

<sup>1</sup> The type locality is neither Travancore, selected by Baker in 1922, nor the Malay Peninsula selected by Robinson and Kloss in 1923. The species does not occur in China as originally stated but an additional locality "Strat Sunda" was provided in Syst. Nat. 1766, i, p. 153: since the bird is not found in Java on the east side of the Sunda Straits the type locality is therefore "Sumatra". If, as Baker states (F.B.I. Birds, 2nd ed. 4, 1927, p. 284) the Sumatran and continental races are separable (the few we have seen from Sumatra seem like Malayan birds) then the latter must bear the name *cavatus* Shaw: Philippines error = India (*Baker, 1930*).



Genus **ANTHRACOCEROS** Reichenbach.

**Anthracoceros coronatus** (Bodd.). Pied Hornbill.

[**Anthracoceros coronatus coronatus** (Bodd.).

*Buceros coronatus* Boddaert, Tabl. Pl. Enlum. 1783, p. 53 : Malabar.

*Distr.*—Extra-limital.]

**Anthracoceros coronatus leucogaster** (Blyth).

*Buceros leucogaster* Blyth, Journ. Asiat. Soc. Bengal, x, 1841, p. 922 : Tenasserim.

*Distr.*—Malay Peninsula (south to Perak).<sup>1</sup>

**Anthracoceros coronatus convexus** (Temm.).

*Buceros convexus* Temminck, Pl. Col. 530, 1832 : Java.

*Buceros intermedius* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p. 995 : Penang.

*Distr.*—Malay Peninsula (north to Patani); Tambelan Islands.

Sumatra; Rhio Archipelago; West Sumatran Islands of Mansalar, the Mentawi group and Nias.

Borneo.

Java; Bali.

**Anthracoceros coronatus zamelaenus** (Oberh.).

*Hydrocissa convexa zamelaena* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 38 : Lingung Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**Anthracoceros coronatus barussensis** (Oberh.).

*Hydrocissa convexa barussensis* Oberholser, Journ. Wash. Acad. Sci. xiv, 1924, p. 301 : Tana Bala Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

**Anthracoceros malayanus** (Raffles).<sup>2</sup> Black Hornbill.

*Buceros malayanus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 292 : Sumatra.

*Buceros antracicus* Temm., Pl. Col. 529, 1832 : Borneo.

*Buceros bicolor* Eyton, Proc. Zool. Soc. 1839, p. 104 : Malacca.

<sup>1</sup> Although there is a slight overlap in the range of *leucogaster* and *convexus* in the north of the Malay Peninsula both forms can very well be regarded as races of *coronatus*.

<sup>2</sup> We believe that white and black bills are characteristic of male and female respectively and that Grant (Cat Birds, xvii, 1892, p. 369) was wrong in attributing the black bill to a subadult stage. The meaning of the colour of the superciliary stripe is less clear: it is white or dark grey independent of age and sex.

# BUCEROTIDÆ.

*Buceros elliotti* Hay, Madr. Journ. xiii, pt. 2, 1844, p. 152: Malacca.  
*Buceros nigrirostris* Blyth, Journ. As. Soc. Bengal. xvi, 1847, p. 995: Malacca.

*Distr.*—Malay Peninsula.  
 Sumatra; Banka; Billiton.  
 Borneo.

Genus **CRANORRHINUS** Cabanis and Heine.

**Cranorrhinus corrugatus** (Temm.). Wrinkled Hornbill.

**Cranorrhinus corrugatus corrugatus** (Temm.).

*Buceros corrugatus* Temminck, Pl. Col. 531, 1832: Borneo.

*Buceros gracilis* Temm., Pl. Col. 535, 1832: Pontianak, Borneo.

*Buceros rugosus* Begbie, Malay Peninsula, 1834, p. 513: Malay Peninsula=Malacca.

*Hydrocissa migratorius* Maingay, Proc. Asiat. Soc. Bengal, 1868, p. 196: Malacca.

*Distr.*—Malay Peninsula.  
 Sumatra.  
 Borneo.

\***Cranorrhinus corrugatus megistus** Oberh.

*Cranorrhinus corrugatus megistus* Oberholser, Smiths. Misc. Coll. lx, 1912, p. 6: Tana Bala Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

Genus **RHYTICEROS** Reichenbach.

**Rhyticeros plicatus** (Forst.). Wreathed Hornbill.

[**Rhyticeros plicatus plicatus** (Forst.).

*Buceros plicatus* Forster, in Pennant, Ind. Zool. 1781, p. 40: Ceram.

*Distr.*—Extra-limital.]

**Rhyticeros plicatus subruficollis** (Blyth).<sup>1</sup>

*Buceros subruficollis* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p. 177: Tenasserim.

*Distr.*—Malay Peninsula.  
 Sumatra.  
 Borneo.

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<sup>1</sup> Bartels and Stresemann (Treubia, xi, 1929, p. 112) regard *R. undulatus* as a subspecies of *plicatus* but it is open to question whether *subruficollis* is not more nearly related to that bird. Of it and the three more western forms, *undulatus*, *subruficollis* and *narcondami* the most distinct is *undulatus* in having the base of the bill in both sexes covered with transverse ridges which are absent in the others. Therefore we would regard *undulatus* as a distinct species and treat the others as races of *plicatus*.

**Rhyticeros undulatus** (Shaw).<sup>1</sup> Malaysian Wreathed Hornbill.

*Buceros undulatus* Shaw, Gen. Zool. viii, 1811, p. 26: Java.

*Buceros javanicus* Shaw, Gen. Zool. viii, 1811, p. 28: Java.

*Buceros niger* Vieill., Nov. Dict. d'Hist. Nat. iv, 1816, p. 592: Java.

*Buceros annulatus* Dumont, Dict. Sc. Nat. vi, 1817, p. 210: Java.

*Distr.*—Malay Peninsula.

Sumatra; Mansalar Island, West Sumatra.

Borneo.

Java; Bali.

Genus **ANORRHINUS** Reichenbach.

**Anorrhinus galeritus** (Temm.). Bushy-crested Hornbill.

*Buceros galeritus* Temminck, Pl. Col. 520, 1831: Sumatra.

*Buceros carinatus* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 187: Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Genus **BERENICORNIS** Bonaparte.

**Berenicornis comatus** (Raffles). Long-crested Hornbill.

*Buceros comatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 330: Sumatra.

? *Buceros lugubris* Begbie, Malay Peninsula, 1834, p. 513: Malay Peninsula=Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Genus **RHINOPLAX** Gloger.

**Rhinoplax vigil** (Forst.). Helmeted Hornbill.

*Buceros vigil* Forster, in Pennant, Ind. Orn. 1781, p. 40: Tenasserim.

*Buceros scutatus* Bodd., Tabl. Planch. Enlum. 1783, p. 55: on Pl. Enlum. 933.

*Buceros galeatus* Gmel., Syst. Nat. i, pt. 2, 1788, p. 360: on Pl. Enlum. 933.

*Distr.*—Malay Peninsula:

Sumatra.

Borneo.

<sup>1</sup> *Buceros pusaran* Raffles, Trans. Linn. Soc. xiii, 1822, p. 293 (Sumatra) is indeterminable.

## Family UPUPIDÆ.

Genus **UPUPA** Linn.

**Upupa epops** Linn.

Hoopoe.

[**Upupa epops epops** Linn.

*Upupa epops* Linn., Syst. Nat. 10th ed. 1758, p. 117 : Sweden.

*Distr.*—Extra-limital.]

**Upupa epops saturata** Lönn.

*Upupa epops saturata* Lönnberg, Arkiv. f. Zool. v, 1909, p. 29 : Mongolia.

*Distr.*—Malay States.<sup>1</sup>  
Borneo.

**Upupa epops longirostris** Jerd.

*Upupa longirostris* Jerdon, Birds of India, i, 1862, p. 393 : Burma.

*Distr.*—Malay Peninsula.  
Sumatra.

## Family MEROPIDÆ.

Genus **MEROPS** Linn.

**Merops leschenaulti**<sup>2</sup> Vieill.

Bay-headed Bee-eater.

**Merops leschenaulti leschenaulti** Vieill.

*Merops leschenaulti* Vieillot, Nov. Dict. d'Hist. Nat. xiv, 1817, p. 17 : Java, error=Ceylon.

*Distr.*—Malay Peninsula.  
Sumatra.<sup>3</sup>

**Merops leschenaulti quinticolor** Vieill.

*Merops quinticolor* Vieillot, Nov. Dict. d'Hist. Nat. xiv, 1817, p. 21 : Ceylon, error=Java.

*Merops virica* Horsf., Trans. Linn. Soc. xiii, 1821, p. 172 : Java.

*Distr.*—Java; Bali.

<sup>1</sup> Also occurs in South-west Siam and therefore almost certainly in Peninsular Siam. See Kozlova, Ibis, 1932, p. 589.

<sup>2</sup> *Merops erythrocephalus* Gmel. has been used for this species, but see Whistler, Journ. Bomb. Nat. Hist. Soc. xxxvii, 1935, p. 758.

<sup>3</sup> Dr. W. L. Abbott considers that he saw this species on Simalur Island, West Sumatra.

**Merops viridis** Linn.

Chestnut-headed Bee-eater.

**Merops viridis viridis** Linn.

*Merops viridis* Linn., Syst. Nat. 12th. ed. i, 1766, p. 182 : Java.

*Merops sumatranus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 294 : Sumatra.

*Merops cyanopygius* Less., Traité d'Orn. 1831, p. 238 : Sumatra.

*Merops sumatranus cæligenus* Bangs and Penard, Proc. New England Zool. Cl. viii, 1923, p. 43 : West Java.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton; Nias Island, West Sumatra.

Borneo; North Natuna Islands; Karimata Islands.

Java.

**Merops superciliosus** Linn.

Brown-breasted Bee-eater.

[**Merops superciliosus superciliosus** Linn.]

*Merops superciliosus* Linn., Syst. Nat. 12th. ed. i, 1766, p. 183 : Madagascar.

*Distr.*—Extra-limital.]

**Merops superciliosus javanicus** Horsf.

*Merops javanicus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 171 : Java.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; West Sumatran Islands of Simalur, Nias, Siberut and Pagi.

Borneo.

Java; Bali; Kangean Islands.

Genus **NYCTIORNIS** Swainson.

**Nyctiornis amicta** (Temm.).

Red-breasted Bee-eater.

*Merops amictus* Temminck, Pl. Col. 310, 1824 : Bencoolen, Sumatra.

*Nyctiornis malaccensis* Cab. and Heine, Mus. Hein. ii, 1859, p. 133 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Family **CAPRIMULGIDÆ**.

Genus **LYNCORNIS** Gould.

**Lyncornis cerviniceps** Gould.

Giant Nightjar.

**Lyncornis cerviniceps cerviniceps** Gould.

*Lyncornis cerviniceps* Gould, Icon. Av. pt. 2, 1838, pl. 14 : China, error = Trang, Peninsular Siam (Rob. and Kloss, 1922).

*Distr.*—Malay Peninsula.<sup>1</sup>

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<sup>1</sup> Apparently as far south as Penang.

**Lyncornis temminckii** Gould.

Great-eared Nightjar.

*Lyncornis Temminckii* Gould, Icon. Av. pt. 2, 1838: Borneo.*Caprimulgus pulcher* Hay, Madras Journ. xiii, pt. 2, 1844, p. 161: Malacca.

Distr.—Malay States.

Sumatra; Banka.

Borneo.

**Genus CAPRIMULGUS** Linn.**Caprimulgus concretus** Bp.

Bornean Nightjar.

**Caprimulgus concretus concretus** Bp.*Caprimulgus concretus* Bonaparte, Conspect. Gen. Av., i, 1850, p. 60: Borneo.*Caprimulgus borneensis* "Wall.," Salvad., Ann. Mus. Civ. Gen. v, 1874, p. 117: S. Borneo.*\*Caprimulgus mirificus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 7: Siak River, East Sumatra.

Distr.—Borneo.

Sumatra; Billiton.

**Caprimulgus pulchellus** Salvad.

Salvadori's Nightjar.

**Caprimulgus pulchellus pulchellus** Salvad.*Caprimulgus pulchellus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 195: Padang, West Sumatra.

Distr.—Sumatra.

**\*Caprimulgus pulchellus bartelsi** Finsch.*Caprimulgus Bartelsi* Finsch, Notes Leyd. Mus. xxiii, 1902, p. 148: West Java.

Distr.—Java.

**Caprimulgus affinis** Horsf.

Allied Nightjar.

**Caprimulgus affinis affinis** Horsf.*Caprimulgus affinis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 142: Java.*Caprimulgus bisignatus* Boie, Mus. Lugd., teste Cass., Cat. Capr. Mus. Philad. 1851:*Caprimulgus arundinaceus* Jacq. and Puch., Voy. au Pôle Sud, Ois. p. 93, 1853: Borneo.*Caprimulgus faberi* Meyer, Sitzungsber. Ges. Isis, i, 1884, p. 20: W. Sumatra.Distr.—Sumatra; Billiton; Nias Island, West Sumatra.<sup>1</sup>

Borneo.

Java; Bali; Karimon-Java Islands.

<sup>1</sup> Dr. Dammerman includes *affinis* in the avifauna of the Rhio Archipelago but no specimen has yet been obtained.

**Caprimulgus macrurus**<sup>1</sup> Horsf. Long-tailed Nightjar.

**Caprimulgus macrurus macrurus** Horsf.

*Caprimulgus macrurus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 142: Java.

*Caprimulgus salvadorii* Sharpe, Proc. Zool. Soc. 1875, p. 99, pl. 22: Labuan.

*Distr.*—Borneo; Banguay Island, North Borneo.  
Java; Bali.

**Caprimulgus macrurus bimaculatus** Peale.

*Caprimulgus bimaculatus* Peale, U.S. Exploring Expedn. viii, Mamm. and Ornith. 1848, p. 170: Singapore Island.

*Caprimulgus macrurus anamesus* Oberholser, Proc. U.S. Nat. Mus. xlviii, 1915, p. 593: Singapore Island.

*Distr.*—Malay States (north to Penang).  
Sumatra; Rhio Archipelago.

**Caprimulgus macrurus ambiguus** Hartert.

*Caprimulgus macrurus ambiguus* Hartert, Ibis, 1896, p. 373: South Tenasserim (Kloss, 1918).

*Distr.*—Peninsular Siam.

**Caprimulgus indicus** Lath. Migratory Nightjar.

[**Caprimulgus indicus indicus** Lath.

*Caprimulgus indicus* Latham, Ind. Orn. ii, 1790, p. 588: India.

*Distr.*—Extra-limital.]

**Caprimulgus indicus jota** Temm. and Schleg.

*Caprimulgus jota* Temminck and Schlegel, Siebold's Fauna Japon. Aves, 1847, p. 37, pl. 12: Japan.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; at sea off the Natuna Islands.

Java.

**Caprimulgus indicus innominatus** Hume.<sup>2</sup>

*Caprimulgus innominata* Hume, Stray Feathers, iii, 1875, p. 318: Tenasserim.

*Distr.*—Peninsular Siam.

<sup>1</sup> Revision: Oberh., Proc. U.S. Nat. Mus. xlviii, 1915, p. 587.

<sup>2</sup> This race needs confirmation but there is some evidence for the recognition of a breeding race, smaller and darker than *jota*, in Indo-China and to it we tentatively refer specimens from the island of Terutau in the Straits of Malacca and from South Annam.

## Family MICROPODIDÆ.

## Genus HEMIPROCNE Nitzsch.

**Hemiprocne longipennis** (Rafin.). Crested Tree-Swift.

**Hemiprocne longipennis longipennis** (Rafin.).

*Hirundo longipennis* Rafinesque, Bull. Soc. Philorm. Paris, iii, 1802, p. 153: Java.

*Hirundo Klecho* Horsf., Trans. Linn. Soc. xiii, 1801, p. 143: Java.

*Distr.*—Java; Bali.

**Hemiprocne longipennis harterti** Stres.

*Hemiprocne longipennis harterti* Stresemann, Nov. Zool. xx, 1913, p. 339: Deli, North-east Sumatra.

*Hemiprocne longipennis anochra* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 42: Bunguran Island, North Natuna Islands.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo; North Bornean Islands; North Natuna Islands; Karimata Islands.

**\*Hemiprocne longipennis perlonga** (Richm.).

*Macropteryx perlonga* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 502: Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**\*Hemiprocne longipennis ocyptera** Oberh.

*Hemiprocne longipennis ocyptera* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 7: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**\*Hemiprocne longipennis thoa** Oberh.

*Hemiprocne longipennis thoa* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 8: Pinie Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands; Pagi Islands; Engano, West Sumatra.<sup>1</sup>

**Hemiprocne comata** (Temm.).

**Hemiprocne comata comata** (Temm.).

Tufted Tree-Swift.

*Cypselus comatus* Temminck, Pl. Col. 268, 1824: Sumatra.

*Distr.*—Malay Peninsula; Anamba Islands (*vis.*).

Sumatra; Rhio Archipelago; Banka; West Sumatra Islands of Nias, Batu Islands, Siberut and Pagi Islands.

Borneo; North Natuna Islands.

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<sup>1</sup> We have referred the Engano bird to the nearest race geographically but have never seen specimens from the island.



Genus **COLLOCALIA**<sup>1</sup> Gray.**Collocalia francica** (Gmel.). Grey-rumped Swiftlet.[**Collocalia francica francica** (Gmel.).*Hirundo francica* Gmelin, Syst. Nat. 1, pt. 2, 1789, p. 1017: Mauritius.*Distr.*—Extra-limital.]**Collocalia francica germani** Oust.<sup>2</sup>*Collocalia germani* Oustalet, Bull. Soc. Phil. Paris, 1876, p. 1: Condor Island, off Cochinchina.*Distr.*—Malay Peninsula.Coasts of Sarawak and North Borneo.<sup>3</sup>**Collocalia francica amechana** Oberh.<sup>4</sup>*Collocalia francica amechana* Oberholser, Proc. U.S. Nat. Mus. lxii, 1912, p. 13: Jinaja Island, Anamba Islands.*Distr.*—South Malay Peninsula; Anamba Islands.**Collocalia francica perplexa** Riley.*Collocalia francica perplexa* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 140: Maratua Island, East Borneo.*Distr.*—Maratua Islands, East Borneo.**\*Collocalia francica javensis** Stres.*Collocalia francica javensis* Stresemann, Bull. Raffles. Mus., 6, 1931, p. 89: Cheribon, Java.*Distr.*—Java; Kangean Islands.**\*Collocalia francica bartelsi** Stres.*Collocalia francica bartelsi* Stresemann, Orn. Monatsber. xxxv, 1927, p. 46: North coast of West Java.*Distr.*—Java.<sup>5</sup><sup>1</sup> Revision: Strese., Bull. Raffles Mus. 6, 1931, p. 83.<sup>2</sup> In North Borneo *C. francica germani* nests on Mantanani Island and on Berhala islet in Sandakan Harbour. Only a few miles away and within sight of Berhala, there are nesting colonies of *C. vestita maratua* on Goman-tong Hill. From the Maratua Islands, E. Borneo, Riley records both *C. f. perplexa* and *C. v. maratua*, and we therefore regard *francica* and *vestita* as "species", but otherwise, in our arrangement of this very difficult genus follow the latest reviewer, Dr. E. Stresemann in Bull. Raffles Mus., 6, 1931, p. 83.<sup>3</sup> We have now examined large series of birds from these Bornean localities: they seem absolutely inseparable from true *germani*.<sup>4</sup> This is the earliest name of which we are certain but *inexpectata* may be applicable to both this and *perplexa*. The rump is always at least slightly paler than the back but darker than in *germani*.<sup>5</sup> "Breeding places probably off the North Coast of West Java," (Stresemann).

**Collocalia vestita** (Less.). Brown-rumped Swiftlet.

**Collocalia vestita vestita** (Less.).

*Salangana vestita* Lesson, Echo du Monde Savant, x, 1843, p. 134 : Sumatra.

*Collocalia nidifica* Gray, Gen. Birds, i, 1845, p. 55 : Sumatra.

*Collocalia francica aerophila* Oberh., Proc. U.S. Nat. Mus. xlii, 1912, p. 16 : Nias Island.

*Collocalia francica natunae* Stres., Orn. Monatsber. xxxviii, 1930, p. 181 : Bunguran Island, N. Natuna Islands.

*Distr.*—South Malay Peninsula.

Sumatra; Billiton; West Sumatran Islands of Sipora, Nias, and ? Simalur.

Natuna Islands.

**Collocalia vestita maratua** Riley.

*Collocalia vestita maratua* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 141 : Maratua Island, East Borneo.

*Distr.*—Borneo; Maratua Islands, East Borneo.<sup>1</sup>

**Collocalia fuciphaga** (Thun.). Thunberg's Swiftlet.

**Collocalia fuciphaga fuciphaga** (Thunb.).

*Hirundo Fuciphaga* Thunberg, Kongl. Vet. Acad. Handl. xxxiii, 1821, p. 153 : Java.

*Hemiprocne salangana* Streubel, Isis, 1848, p. 368 : Java.

*Distr.*—Java.

**Collocalia** (? *fuciphaga*) **innominata** Hume. Hume's Swiftlet.

*Collocalia innominata* Hume, Stray Feathers, i, 1873, p. 294 : South Andaman Islands.

*Distr.*—Malay States.

? Sumatra (West).

**Collocalia lowi** (Sharpe). Low's Swiftlet.

**Collocalia lowi lowi** (Sharpe).

*Cypselus lowi* Sharpe, Proc. Zool. Soc. 1879, p. 333 : Labuan Island, Borneo.

*Distr.*—Sumatra; Nias Island, West Sumatra.

Borneo (west and north).

**Collocalia lowi robinsoni** Stres.

*Collocalia lowi robinsoni* Stresemann, Bull. Raffles Mus., 6, 1931, p. 98 : Bilitung Island, south-west of Terutau Island, Straits of Malacca.

*Distr.*—Malay Peninsula; Anamba Islands.<sup>2</sup>

<sup>1</sup> Perhaps the Natuna race should be included under *maratua* which is slightly darker than typical *vestita*.

<sup>2</sup> We have not seen specimens from the Anamba Islands but as *robinsoni* breeds in the Tioman Archipelago the Anamba form is more likely to be *robinsoni* than *lowi*.

**Collocalia lowi tichelmani** Stres.

*Collocalia brevirostris tichelmani* Stresemann, Orn. Monatsber. xxxiv, 1926, p. 104: Tamaloeang, South-east Borneo.

*Distr.*—Borneo (south-east).

**\*Collocalia (? lowi) vulcanorum** Stres.

*Collocalia brevirostris vulcanorum* Stresemann, Mitt. Zool. Mus. Berlin xii, 1926, p. 352: West Java.

*Distr.*—Java (west).

**Collocalia gigas** Hart. and Butl.

Giant Swiftlet.

*Collocalia gigas* Hartert and Butler, Bull. Brit. Orn. Cl. xi, 1901, p. 65: Selangor, Malay States.

*Distr.*—Malay States.

Sumatra.

Java.

**Collocalia esculenta** (Linn.).

White-bellied Swiftlet.

**[Collocalia esculenta esculenta** (Linn.).

*Hirundo esculenta* Linn., Syst. Nat. 10th. ed. 1758, p. 191: Amboyna.

*Distr.*—Extra-limital.]

**Collocalia esculenta linchi** Horsf. and Moore.

*Collocalia linchi* Horsfield and Moore, Cat. Bds. Mus. East Ind. Coy. i, 1854, p. 100: Java.

*Distr.*—? Sumatra (south-east).

Java; Bali; Kangean Islands; Bawean Island.

**Collocalia esculenta cyanoptila** Oberh.

*Collocalia linchi cyanoptila* Oberholser, Proc. Acad. Nat. Sci. Philadelphia, 1906, p. 205: Bunguran Island, North Natuna Islands.

*Distr.*—Malay States.

? Sumatra (east);<sup>1</sup> Lingga Archipelago.

Borneo; North Natuna Islands.

**Collocalia esculenta oberholseri** Stres.

*Collocalia linchi oberholseri* Stresemann, Nov. Zool. xix, 1912, p. 348: North Pagi Island, West Sumatra.

*Distr.*—Sumatra (west); Nias Island and Mentawi Islands, West Sumatra.<sup>2</sup>

<sup>1</sup> Specimens from North-east Sumatra are small and are possibly nearer to *C. l. affinis* Beavan of the Andaman Islands than to *cyanoptila*: we have not seen *affinis*. *C. l. elachyptera* Oberh. (Mergui Arch.) probably occurs in Peninsular Siam.

<sup>2</sup> We have not seen specimens from Nias and place them with *oberholseri* purely on geographical grounds.

**Collocalia esculenta dodgei** Richm.

*Collocalia dodgei* Richmond, Smiths. Quart. ii, 1905, p. 431: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (mountains of the North).  
Sumatra (Korinchi Peak).

**Collocalia esculenta natalis** Lister.

*Collocalia natalis* Lister Proc. Zool. Soc. 1888, p. 520: Christmas Island, Indian Ocean.

*Distr.*—Christmas Island, Indian Ocean.

Genus **CHÆTURA** Stephens.**Chætura caudacuta** (Lath.). White-throated Spinetail Swift.

[**Chætura caudacuta caudacuta** (Lath.).

*Hirundo caudacuta* Latham, Index Orn. Suppl. 1801, p. 57: New South Wales.

*Distr.*—Extra-limital.]

**Chætura caudacuta nudipes** Hodgs.

*Chætura Nudipes* Hodgson, Journ. Asiat. Soc. Bengal, v, 1836, p. 779: Nepal.

*Distr.*—Java.

**Chætura caudacuta cochinchinensis** Oust.

*Chætura cochinchinensis* Oustalet, Bull. Soc. Philom. Paris, 1878, p. 52: Saigon, Cochin China.

*Hirundinapus klaesii* Büttikofer, Notes Leyd. Mus. ix, 1887, p. 40: Padang Highlands, West Sumatra.

*Distr.*—Malay States.  
Sumatra.  
Java.

**Chætura gigantea** (Temm.). Spinetail Swift.**Chætura gigantea gigantea** (Temm.).

*Cypselus giganteus* Temminck, Pl. Col. 364, 1825: Java.

*Distr.*—Malay States.  
Sumatra; Rhio Archipelago.  
Borneo; North Natuna Islands.  
Java.

**Chætura gigantea indica** Hume.

*Chætura indica* Hume, Stray Feathers, i, 1873, p. 471: Travancore.

*Distr.*—Malay States.

**Chætura celebensis** Scl.[**Chætura celebensis celebensis** Scl.*Chætura gigantea*, var. *celebensis* P. L. Sclater, Proc. Zool. Soc. 1865, p. 608: Menado, Celebes.*Distr.*—Extra-limital.]\***Chætura celebensis ernsti** Bartels.

Bartel's Spinetail Swift.

*Chætura ernsti* Max Bartels Jr., Orn. Monatsber. xxxix, 1931, p. 54: Mt. Halimoen, West Java.*Distr.*—Java (west).**Chætura leucopygialis** (Blyth).

Grey-rumped Spinetail Swift.

*Acanthylis leucopygialis* Blyth, Journ. Asiat. Soc. Bengal, xviii, 1849, p. 809: Penang.*Acanthylis coracinus* Bp., Consp. Gen. Avium, i, 1850, p. 64: Borneo.*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java.

Genus **CYPSIURUS** Lesson.**Cypsiurus batasiensis** (J. E. Gray).

Palm Swift.

[**Cypsiurus batasiensis batasiensis** (J. E. Gray).*Cyp. Balasiensis* J. E. Gray, Griffith's Anim. Kingd. vii, 1829, p. 60: India.*Distr.*—Extra-limital.]**Cypsiurus batasiensis infumatus** (Sclat.).*Cypselus infumatus* Sclater, Proc. Zool. Soc. 1865, p. 602: Borneo.*Distr.*—Malay Peninsula; Tambelan Islands (*vis.*).

Sumatra.

Borneo.

Java; Bali.

Genus **MICROPUS** Wolf.**Micropus pacificus** (Lath.).

White-rumped Swift.

**Micropus pacificus pacificus** (Lath.).*Hirundo pacifica* Latham, Index Orn. Suppl. 1801, p. 58: New South Wales.*Distr.*—Malay Peninsula.Sumatra; Rhio Archipelago (*vis.*).

Java.

**Micropus pacificus cooki** (Har.).

*Cypselus pacificus cooki* Harington, Bull. Brit. Orn. Cl. xxxi, 1913,  
p. 57 : North Shan States.

*Distr.*—Malay States.

**Micropus affinis** (J. E. Gray).

House-Swift.

[**Micropus affinis affinis** Gray.

*Cypselus affinis* J. E. Gray, in Gray and Hardwicke's Ill. Ind. Zool.  
i, 1832, pl. 35 : Ganges.

*Distr.*—Extra-limital.]

**Micropus affinis subfurcatus** (Blyth).

*Cypselus subfurcatus* Blyth, Asiatic Soc. Bengal xviii, 1849, p. 807 :  
Penang.

*Cypselus leucopygius* Cass., Proc. Ac. Phil. v, 1852, p. 58, pl. 13 :  
Sumatra.

*Distr.*—Malay Peninsula; Anamba Islands (*vis.*).  
Sumatra; Rhio Archipelago (*vis.*); Billiton.  
Borneo; North Natuna Islands.  
Java.

## Family TROGONIDÆ.

Genus **HARPACTES** Swainson.

**Harpactes diardii** (Temm.).

Diard's Trogon.

**Harpactes diardii diardii** (Temm.).

*Trogon diardii* Temminck, Pl. Col. 541, 1832 : Borneo.

*Distr.*—Banka.  
Borneo.

**Harpactes diardii sumatranus** Blas.

*Harpactes diardi sumatranus* Blasius, Mitt. Geogr. Ges. Nat. Mus.  
Lubeck, 2 Reihe, Heft. 10, 1896, p. 95 : Sumatra.

*Pyrotrogon neglectus* Forbes and Robinson, Bull. Liverpool Mus. ii,  
1900, p. 34 : Malacca.

*Distr.*—Malay Peninsula.  
Sumatra.

**Harpactes kasumba** (Raffles).

Red-naped Trogon.

**Harpactes kasumba kasumba** (Raffles).

*Trogon Kasumba* Raffles, Trans. Linn. Soc. xiii, 1822, p. 282 :  
Bencoolen, Sumatra.

*Trogon Condea* Cuv., Règ. An. i, 1829, p. 459 : Sumatra.

*Trogon Temminckii* Gould, Proc. Zool. Soc. 1835, p. 29 : Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.

**Harpactes kasumba impavidus** (Chas. and Kloss).

*Pyrotrogon fasciatus impavidus* Chasen and Kloss, Bull. Raffles Mus., 5, 1931, p. 84: Bettotan near Sandakan, British North Borneo.

*Pyrotrogon kasumba usa* Harrison and Hartley, Bull. B. O. Cl. liv. 1934, p. 150: Mt. Kalulong, Sarawak.

*Distr.*—Borneo.

**Harpactes whiteheadi** Sharpe.

Whitehead's Trogon.

*Harpactes whiteheadi* Sharpe, Ibis, 1888, p. 395, pl. 12: Mount Kinabalu, British North Borneo.

*Distr.*—Borneo (mountains).

**Harpactes erythrocephalus** (Gould).

Red-headed Trogon.

[*Harpactes erythrocephalus erythrocephalus* (Gould).

*Trogon erythrocephalus* Gould, Proc. Zool. Soc. 1834, p. 25: Rangoon.

*Distr.*—Extra-limital.]

**Harpactes erythrocephalus chaseni** Riley.<sup>1</sup>

*Harpactes erythrocephalus chaseni* Riley, Proc. Biol. Soc. Wash. xlvii, 1934, p. 115: Semangko Pass, Selangor—Pahang boundary, Malay States.

*Distr.*—Malay States.

**Harpactes erythrocephalus flagrans** (Müll.).

*Trogon flagrans* Sal. Müller, Tijds. Nat. Ges. Phys. 1835, p. 338, pl. 8, fig. 2: Sumatra.

*Distr.*—Sumatra.

**Harpactes duvaucelii** (Temm.).

Red-rumped Trogon.

*Trogon duvaucelii* Temminck, Pl. Col. 291, 1824: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo; North Natuna Islands.

<sup>1</sup> This race needs confirmation: as some recent authors have remarked the bird from the Malay States *ought* to be separable, but Robinson who worked through the species in 1927 saw no reason for separation and I have a recollection that he once told me that he could not separate a Malayan subspecies. I have never seen fresh skins of true *erythrocephalus*.

**Harpactes orrhophaeus** Cab. and Heine. Cinnamon-rumped Trogon.

**Harpactes orrhophaeus orrhophaeus** (Cab. and Heine).

*Pyrotrogon orrophaeus* Cabanis and Heine, Mus. Hein. iv, 1863, p. 156: Malacca.

*Distr.*—Malay States.<sup>1</sup>  
Sumatra.

**Harpactes orrhophaeus vidua** O.-Grant.

*Harpactes vidua* O.-Grant, Cat. Bds. Brit. Mus. xvii, 1892, p. 501:  
Mt. Dulit, North Sarawak, Borneo.

*Distr.*—Borneo.

**Harpactes oreskios** (Temm.).

Orange-breasted Trogon.

**Harpactes oreskios oreskios** (Temm.).

*Trogon oreskios* Temminck, Pl. Col. 181, 1823: Java.

*Harpactes gouldii* Swains., Class. Birds, ii, 1837, p. 337: New name for  
Pl. Col. "121" (=181).

*Distr.*—Java.

**Harpactes oreskios uniformis** Rob.

*Pyrotrogon oreskios uniformis* Robinson, Journ. Fed. Malay States  
Mus. vii, 1917, p. 149: Trang, Peninsular Siam.

*Distr.*—Malay Peninsula.  
Sumatra.

**Harpactes oreskios dulitensis** O.-Grant.

*Harpactes dulitensis* O.-Grant, Cat. Bds. Brit. Mus. xvii, 1892,  
p. 502: Mt. Dulit, North Sarawak, Borneo.

*Distr.*—Borneo.

**Harpactes reinwardtii** (Temm.).

Reinwardt's Trogon.

**Harpactes reinwardtii reinwardtii** (Temm.).

*Trogon Reinwardtii* Temminck, Pl. Col. 124, 1823: Java.

*Distr.*—Java.

**Harpactes reinwardtii mackloti** (S. Müll.).

*Trogon Mackloti* Sal. Müller, Tijds. Nat. Gesch. Phys. 1835, p.  
336, pl. 4, fig. 1: Sumatra.

*Distr.*—Sumatra.

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<sup>1</sup> The specimen recorded by Müller from the Malay Peninsula probably came from the neighbourhood of Junk Seylon, Peninsular Siam. *T. rutilus* Vieill. and *T. cinnamomeus* Temm. are too uncertain for inclusion here.



## Family CUCULIDÆ.

Genus **CLAMATOR** Kaup.

**Clamator coromandus** (Linn.). Red-winged Crested Cuckoo.

*Cuculus coromandus* Linn., Syst. Nat. 12th. ed. i, 1766, p. 171 :  
Coromandel Coast.

*Distr.*—Malay Peninsula.

Sumatra; Lingga Archipelago.

Borneo.

Java.

Genus **SURNICULUS**<sup>1</sup> Lesson.

**Surniculus lugubris** (Horsf.). Black Drongo-Cuckoo.

**Surniculus lugubris lugubris** (Horsf.).

*Cuculus lugubris* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 179 :  
Java.

*Cuculus albopunctulatus* Drap., Dict. Class. Hist. Nat. iv, 123, p. 570 :  
Java.

*Distr.*—Java; Bali.

**Surniculus lugubris brachyurus** Stres.

*Surniculus lugubris brachyurus* Stresemann, Nov. Zool. xx, 1913,  
p. 340 : Pahang, Malay States.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Banka.

Borneo.

**Surniculus lugubris dicruroides** (Hodgs.).

*Pseudornis dicruroides* Hodgson, Journ. Asiat. Soc. Bengal, viii,  
1839, p. 136 : Nepal.

\**Surniculus lugubris massorhinus* Oberholser, Journ. Wash. Acad. Sci.  
xiv, 1924, p. 300 : Siak River, East Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.<sup>2</sup>

North Natuna Islands.

\***Surniculus lugubris barussarum** Oberh.

*Surniculus lugubris barussarum* Oberholser, Smiths. Misc. Coll. 1x,  
7, 1912, p. 5 : Tana Bala Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra; Nias (? subspecies).

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<sup>1</sup> Revisions : Stres., Nov. Zool. xx, 1913, p. 340; Baker, Nov. Zool. xxvi,  
1919, p. 291.

<sup>2</sup> Specimens examined from N. E. Sumatra.

Genus **HIEROCOCCYX** S. Müller.**Hierococcyx sparverioides** (Vig.). Large Hawk-Cuckoo.**Hierococcyx sparverioides sparverioides** (Vig.).*Cuculus sparverioides* Vigors, Proc. Comm. Zool. Soc. i, 1832, p. 173: Simla.*Distr.*—Malay Peninsula.

Borneo.

Sumatra.

Java.

**Hierococcyx sparverioides bocki** Wardl. Rams.*Hierococcyx bocki* Wardlaw Ramsay, Ibis, 1886, p. 157: Mt. Sago, West Sumatra.*Distr.*—Malay States.

Sumatra.

Borneo.

**Hierococcyx fugax** (Horsf.). Malayan Hawk-Cuckoo.**Hierococcyx fugax fugax** (Horsf.).<sup>1</sup>*Cuculus fugax* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 178: Java.*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Billiton.

Borneo; Karimata Islands.

Java.

**Hierococcyx fugax nasicolor** (Blyth).*Cuculus nasicolor* Blyth, Journ. Asiat. Soc. Bengal xii, 1843, p. 943: Nepal.*Distr.*—Malay Peninsula.Sumatra; Billiton; Siberut Island, West Sumatra.<sup>2</sup>

Java.

**Hierococcyx fugax hyperythrus** (Gould).*Cuculus hyperythrus* Gould, Proc. Zool. Soc. 1856, p. 96: Shanghai.*Distr.*—Borneo.

<sup>1</sup> Although we have recently recognised *fugax* and *nasicolor* as distinct and have given characters for their recognition there remains an element of doubt in our minds as to whether or not they should be united as one immigrant race in which case *H. vagans* could be regarded as a small southern resident form of the same species. Most of the *fugax* examined by us are females and most of the *nasicolor* males.

<sup>2</sup> A form of *H. fugax* also occurs in Banka.

CUCULIDÆ.

**Hierococcyx vagans** (S. Müll.).<sup>1</sup> Small Hawk-Cuckoo.

*Cuculus vagans* S. Müller, Verh. Nat. Gesch. Land en Volk. 1845, p. 233, note : Java.

*Distr.*—Malay Peninsula.

Borneo.

Java.

Genus **CUCULUS** Linn.

**Cuculus micropterus** Gould.

Indian Cuckoo.

**Cuculus micropterus micropterus** Gould.

*Cuculus micropterus* Gould, Proc. Zool. Soc. 1837, p. 137 : Himalayas.

*Cuculus affinis* "Hay", Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 18 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Banka.

Borneo.

Java; Thousand Islands.

**Cuculus micropterus concretus** S. Müll.

*Cuculus concretus* S. Müller, Verh. Nat. Gesch., Land en Volk. 1845, p. 236 : Borneo.

*Distr.*—Borneo.

Sumatra.

Java.

**Cuculus canorus** Linn.

Common Cuckoo.

[**Cuculus canorus canorus** Linn.

*Cuculus canorus* Linn., Syst. Nat. 10th ed. 1758, p. 110 : Sweden.

*Distr.*—Extra-limital.]

**Cuculus canorus telephonus** Heine.<sup>2</sup>

*Cuculus telephonus* Heine, Journ. f. Orn. 1863, p. 352 : Japan.

*Distr.*—Malay States.

Sumatra; Lingga Archipelago.

Borneo.

Java; Bawean Island.

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<sup>1</sup> This is *Hierococcyx nanus* Hume, Stray Feathers, v, 1877, p. 490 : South Tenasserim.

<sup>2</sup> The following names are uncertain but may apply to this bird.—*C. assimilis* Brehm, Isis, 1843, p. 893 (Java); *C. striatus* Drap., Dict. Class. d'Hist. Nat. iv, 1843, p. 570 (Java); *C. canoroides* S. Müll., Verh. Nat. Gesch. Land en Volk. 1845, p. 235 (Java).

**Cuculus optatus** Gould.<sup>1</sup> Gould's Cuckoo.

*Cuculus optatus* Gould, Proc. Zool. Soc. 1845, p. 18: North Australia.

*Cuculus horsfieldi* "Moore", Horsfield and Moore, Cat. Bds. Mus. East Ind. Coy. ii, 1858, p. 703: Java.

*Distr.*—Malay States.

Sumatra; Nias Island, West Sumatra.

Borneo.

Java; Bali.

**Cuculus poliocephalus** Lath. Small Cuckoo.

[**Cuculus poliocephalus poliocephalus** Lath.

*Cuculus poliocephalus* Latham, Index Orn. i, 1790, p. 214: India.

*Distr.*—Extra-limital.]

**Cuculus poliocephalus insulindae** Hartert.

*Cuculus intermedius insulindae* Hartert, Vög. pal. Fauna, ii, 1912, p. 952: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.<sup>2</sup>

**Cuculus poliocephalus lepidus** S. Müll.

*Cuculus lepidus* S. Müller, Verh. Nat. Gesch. Land en Volk. 1845, p. 236: Timor.

*Distr.*—Malay States.

Sumatra.<sup>3</sup>

Java; Bali.

Genus **PENTHOCERYX**<sup>4</sup> Cabanis and Heine.

**Penthoceryx sonneratii** (Lath.). Banded Bay Cuckoo.

[**Penthoceryx sonneratii sonneratii** (Lath.).

*Cuculus Sonneratii* Latham, Index Orn. i, 1790, p. 215: Bengal.

*Distr.*—Extra-limital.]

**Penthoceryx sonneratii malayanus** Chas. and Kloss.

*Penthoceryx sonneratii malayanus* Chas. and Kloss, Bull. Raffles Mus., 5, 1931, p. 84: Kuala Lumpur, Selangor, Malay States.

*Distr.*—Malay Peninsula (not extreme south).

<sup>1</sup> *C. saturatus* Blyth, Journ. As. Soc. Bengal, xii, 1843, p. 942 (India) is possibly the name for this bird, but *optatus* is the first name of certain application. Also occurs in South-west Siam and therefore almost certainly in Peninsular Siam.

<sup>2</sup> The Bornean form is separable from *lepidus* of Java on account of the darker grey parts of the plumage.

<sup>3</sup> The few birds from Sumatra seen by us (together with those from the Lesser Sunda Islands) seem nearer to *lepidus* than to *insulindae*. Some are *lepidus* > *insulindae*.

<sup>4</sup> Cf. Baker, Bull. B. O. Cl. xxxix, 1919, p. 45.

CUCULIDÆ.

**Penthoceryx sonneratii fasciolatus** (S. Müll.).

*Cuculus fasciolatus* S. Müller, Verh. Nat. Gesch., Land en Volk, 1843, p. 177: Sumatra.

*Distr.*—Malay States (extreme south).  
Sumatra; Rhio Archipelago.  
Borneo.

**Penthoceryx sonneratii musicus** (Ljungh).

*Cuculus musicus* Ljungh, Kongl. Vet. Acad. Handl. xxiv, 1804, p. 309, Taf. 6: Batavia, Java.

*Cuculus pravata* Horsf., Trans. Linn. Soc. xiii, 1821, p. 179: Java.

*Cuculus rufo-vittatus* Drap., Dict. Class. d'Hist. Nat. iv, 1823, p. 568: Java.

*Distr.*—Java.

Genus **CACOMANTIS**<sup>1</sup> S. Müller.

**Cacomantis merulinus** (Scop.).

Brain-fever Bird.

[**Cacomantis merulinus merulinus** (Scop.).

*Cuculus merulinus* Scopoli, Del Flor. et Faun. Insubr. ii, 1786, p. 89: Panay Island, Philippines.

*Distr.*—Extra-limital.]

**Cacomantis merulinus querulus** Heine.

*Cacomantis querulus* Heine, Journ. f. Orn. 1863, p. 352: Nepal.

*Distr.*—Malay Peninsula.<sup>2</sup>

**Cacomantis merulinus threnodes** Cab. and Heine.

*Cacomantis threnodes* Cabanis and Heine, Mus. Hein. iv, 1862, p. 19: Malacca.

*Cacomantis dysonymus* Heine, Journ. f. Orn. 1863, p. 352: Borneo.

*Distr.*—Malay States.

Sumatra; West Sumatran Islands of Siberut and Engano.  
Borneo.

**Cacomantis merulinus lanceolatus** (S. Müll.).

*Cuculus lanceolatus* S. Müller, Verh. Nat. Gesch., Land en Volkenk. 1843, p. 178: Java.

*Distr.*—Java.

**\*Cacomantis merulinus subpallidus** Oberh.

*Cacomantis merulinus subpallidus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 4: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

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<sup>1</sup> Revisions: Stres., Nov. Zool. xix, 1913, p. 332; Hart., Nov. Zool. xxxii, 1925, p. 164.

<sup>2</sup> *C. m. threnodes* and *C. m. querulus* inosculate in the north of the Malay States.

**Cacomantis variolosus** (Vig. and Horsf.). Fan-tailed Cuckoo.

[**Cacomantis variolosus variolosus** (Vig. and Horsf.).

*Cuculus variolosus* Vigors and Horsfield, Trans. Linn. Soc. xv, 1827, p. 300: New South Wales.

*Distr.*—Extra-limital.]

**Cacomantis variolosus sepulcralis** (S. Müll.).

*Cuculus sepulcralis* S. Müller, Verh. Nat. Gesch. Land en Volk. 1843 p. 177: Java.

*Distr.*—Malay Peninsula.

Sumatra; Simalur Island, West Sumatra; Billiton.

Borneo.

Java; Bali.

#### Genus **CHALCITES**<sup>1</sup> Lesson.

**Chalcites xanthorhynchus** (Horsf.). Violet Cuckoo.

**Chalcites xanthorhynchus xanthorhynchus** (Horsf.).

*Cuculus xanthorhynchus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 179: Java.

*Distr.*—Malay Peninsula.<sup>2</sup>

Sumatra; Lingga Archipelago.

Borneo; North Natuna Islands.

Java.

**Chalcites xanthorhynchus bangueyensis** Chas. and Kloss.<sup>3</sup>

*Chalcites (Chalcococcyx) xanthorhynchus bangueyensis* Chasen and Kloss, Journ. f. Ornith. 1929, ii, p. 109: Banguay Island, North Borneo.

*Distr.*—Banguay Island.

**Chalcites maculatus** (Gmel.).<sup>4</sup> Emerald Cuckoo.

*Trogon maculatus* Gmelin, Syst. Nat. i, 1788, p. 404: Ceylon.

*Distr.*—Malay Peninsula.

Sumatra.

<sup>1</sup> Revision: Hart. and Stres., Nov. Zool. xxxii, 1925, p. 158.

<sup>2</sup> The largest specimen we have is a female with a wing-length of 106 mm. from Trang, Peninsular Siam. If there is a large northern race it will stand as *C. x. limborgi* Tweeddale, Proc. Zool. Soc. 1877, p. 366: Tenasserim.

<sup>3</sup> This is a poor race and we have now seen one or two specimens like topotypes from elsewhere. For the present it can stand on average characters: it seems likely that the name will eventually have to be used to cover a non-Javan Malaysian race. Good series of topotypical *xanthorhynchus* seem not to exist.

<sup>4</sup> This is an extremely rare bird in the Malay States and furthermore only a seasonal visitor: Mr. Stuart Baker's remarks on Malayan birds in Fauna Brit. Ind., Bds., 2nd ed. iv, 1927, p. 162, seem to apply to another species. For a discussion concerning the type locality for which "Pegu" was proposed by Robinson and Kloss in 1923, see Whistler, Journ. Bomb. Nat. Hist. Soc. xxxvii, 1934, p. 521.

**Chalcites basalis** (Horsf.).

Bronze Cuckoo.

*Cuculus basalis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 179 :  
Java.*Cuculus chalcites* Temm., Pl. Col. 102, fig. 2, 1823 : l'Océanie=Java  
(Mathews).*Cuculus neglectus* Schleg., Mus. Pays-Bas, Cuculi, 1864, p. 35=Borneo.

Distr.—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Java; Bali; Kangean Islands; Christmas Island.

**Chalcites malayanus** (Raffles).

Malay Cuckoo.

**Chalcites malayanus malayanus** (Raffles).*Cuculus malayanus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 286 :  
Malay Peninsula.

Distr.—Malay Peninsula.

Sumatra.

Borneo; Maratua Islands, East Borneo.

Java.

Genus **EUDYNAMYS** Vigors and Horsfield.**Eudynamys scolopaceus** (Linn.).

Koel.

**Eudynamys scolopaceus scolopaceus** (Linn.).*Cuculus scolopaceus* Linn., Syst. Nat. 10th. ed. 1758, p. 111 : Bengal.

Distr.—Malay Peninsula.

South Natuna Islands.

**Eudynamys scolopaceus malayanus** Cab. and Heine.<sup>1</sup>*Eudynamis malayana* Cabanis and Heine, Mus. Hein. iv, 1862,  
p. 52 : Sumatra.

Distr.—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; West Sumatran Islands  
of Simalur, Babi, Lasia (*vis.*), Nias and Pagi.

Borneo; Karimata Islands; North Natuna Islands.

Java; Thousand Islands; Karimon-Java Islands; Kangean  
Islands; Bawean Island.

<sup>1</sup> Excluding obviously immature, doubtful or moulting birds the adult females of our large series of this cuckoo are readily divisible into two well defined groups. One of these consists of comparatively large rufous birds with the bill relatively robust: these we regard as *malayana*. The other section includes rather smaller birds in which the markings on the plumage are white and the bill less robust. These we have listed as *scolopacea*, but the wing-range of these birds is very large for one race and perhaps specimens of *chinensis* Cab. are included. All our records of localities based on literature and not skins are included above under *malayana* as this is the common form: our material comes from the Malay Peninsula and Natuna Islands only.

Genus **CENTROPUS** Illiger.**Centropus rectunguis** Strickl.                      Malaysian Crow-Pheasant.. *Centropus rectunguis* Strickland, Proc. Zool. Soc. 1846, p. 104 :  
Malacca.*Distr.*—Malay States.

Sumatra.

Borneo.

**Centropus sinensis**<sup>1</sup> (Steph.).                      Crow-Pheasant or Coucal.[**Centropus sinensis sinensis** (Steph.).*Polophilus sinensis* J. F. Stephens in Shaw, Gen. Zool. (Aves), ix,  
1815, p. 51 : Ningpo, China (*restr. Siresemann, 1913*).*Distr.*—Extra-limital.]**Centropus sinensis intermedius** (Hume).*Centrococyx intermedius* Hume, Stray Feathers, i, 1873, p. 454 :  
Thayetmyo, Burma.*Distr.*—Peninsular Siam.**Centropus sinensis bubutus** Horsf.*Centropus Bubutus* Horsfield, Trans. Linn. Soc. Lond. xiii, 1821,  
p. 180 : Java.*Centropus philippensis javanica* Horsfield, Zool. Res. Java, 1823, text  
to pl. 60 : new name for *C. bubutus*.*Distr.*—Java; Bali; Kangean Islands.**Centropus sinensis eurycercus** Hay.*Centropus eurycercus* Hay, Journ. Asiat. Soc. Bengal, xiv, 1845,  
p. 551 : Malacca.*Centrococyx acheensis* Hume, Stray Feathers, vi, 1878, p. 171 :  
Acheen, North Sumatra.*Distr.*—Malay Peninsula.

Sumatra; West Sumatran Islands of Nias and Siberut.

Borneo; North Natuna Islands.

**Centropus bengalensis**<sup>2</sup> (Gmel.).                      Lesser Crow-Pheasant or Coucal.[**Centropus bengalensis bengalensis** (Gmel.).*Cuculus bengalensis* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 412 :  
Bengal.*Distr.*—Extra-limital.]<sup>1</sup> Revision : Stres., Nov. Zool. xx, 1913, p. 321.<sup>2</sup> Revision : Stres., Nov. Zool. xix, 1912, p. 336.



**Centropus bengalensis javanicus** (Dum.).

*Cuculus javanicus* Dumont, Dict. Sci. Nat. 11, 1818, p. 144 : Java.

*Centropus lepidus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 180 : Java.

*Centropus affinis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 180 : Java.

*Centropus pumilus* Less., Traité d'Orn. 1831, p. 136 : Java, Sumatra = Sumatra.

Distr.—Malay Peninsula.

Sumatra; Banka; Rhio Archipelago.

Borneo; North Natuna Islands.

Java; Bali.

**\*Centropus nigrorufus** (Cuv.). Sunda Island Crow-Pheasant.

*Cuculus nigrorufus* Cuvier, Règne An. i, 1817, p. 426 : Java.

*Centropus purpureus* Shelley, Cat. Bds. Brit. Mus. xix, 1891, p. 348 : Sumatra.

Distr.—Sumatra.

Java.

**Centropus celebensis** Quoy and Gaimard. Celebes Crow-Pheasant.

[**Centropus celebensis celebensis** Quoy and Gaim.

*Centropus celebensis* Quoy and Gaimard, Voy. Astrol. i, 1830, p. 230, pl. 20 : Minahassa, North Celebes.

Distr.—Extra-limital.]

**\*Centropus celebensis kangeangensis** Vorderm.

*Centropus kangeangensis* Vorderman, Nat. Tijdschr. Ned. Ind. lii, 1893, p. 190 : Kangean.

Distr.—Kangean Islands.

Genus **ZANCLOSTOMUS** Swainson.**Zanclostomus javanicus** (Horsf.). Red-billed Malkoha.**Zanclostomus javanicus javanicus** (Horsf.).

*Phoenicophaeus Javanicus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 178 : Java.

*Coccyus rubirostris* Drap., Dict. Class. Hist. Nat. iv, 1823, p. 558 : Java.

*Piaya chrysogaster* Less., Traité d'Orn. 1830, p. 140 : La Guiane error = Java.

*Piaya erythrorhyncha* Less., Traité d'Orn. 1830, p. 141 : Java.

Distr.—Java.

**Zanclostomus javanicus pallidus** Rob. and Kloss.

*Zanclostomus javanicus pallidus* Robinson and Kloss, Journ. Fed. Mal. States Mus. x, 1921, p. 203 : Kedah Peak, Malay States.

Distr.—Malay Peninsula.

Sumatra.

Borneo.

**Zanclostomus javanicus natunensis** Chas.

*Zanclostomus javanicus natunensis* Chasen, Bull. Raffles Mus. 9, 1934, p. 94 : Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

Genus **RHOPODYTES** Cabanis and Heine.

**Rhopodytes tristis** (Less.). Large Green-billed Malkoha.

[**Rhopodytes tristis tristis** (Less.).

*Melias tristis* Lesson, Traité d'Orn. 1830, p. 132 : Bengal.

*Distr.*—Extra-limital.]

**Rhopodytes tristis longicaudatus** (Blyth).

*Phœnicophæus longicaudatus* Blyth, Journ. Asiat. Soc. Bengal, x, 1841, p. 923 : Moulmein.

*Distr.*—Malay Peninsula.

**Rhopodytes tristis elongatus** (S. Müll.).

*Phœnicophaeus elongatus* Sal. Müller, Tijds. Nat. Ges. Phys. 1835, p. 342, pl. 4, fig. 5 : West Sumatra.

*Distr.*—Sumatra.

\***Rhopodytes tristis kangeangensis** Vord.

*Rhopodytes kangeangensis* Vorderman, Nat. Tijdschr. Ned. Ind. lii, 1893, p. 188 : Kangean.

*Distr.*—Kangean Islands.

**Rhopodytes diardi** (Less.).

Small Green-billed Malkoha.

**Rhopodytes diardi diardi** (Less.).

*Melias diardi* Lesson, Traité d'Orn. 1830, p. 132 : Sumatra.

*Phœnicophæus nigriventris* Peale, U.S. Explor. Exped. viii, 1848, p. 140 : Singapore.

*Distr.*—Malay Peninsula.

Sumatra.

**Rhopodytes diardi borneensis** Salvad.

*Rhopodytes borneensis* Salvadori, Ann. Mus. Civ. Gen. v, 1874, p. 72 : Borneo.

*Distr.*—Borneo.

**Rhopodytes sumatranus** (Raffles).

Rufous-bellied Malkoha.

*Cuculus sumatranus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 287 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelago; Billiton and Mendanau Islands; Banka.

Borneo; North Natuna Islands.

Genus **RHINORTHA** Vigors.**Rhinortha chlorophæa** (Raffles). Raffles' Green-billed Malkoha.*Cuculus chlorophæus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 288 : Sumatra.*Phenicophaus caniceps* Vig., Mem. Raffles. App. 1830, p. 671 : Sumatra.*Bubutus Duvaucelii* Less., Traité d'Orn. 1830, p. 143 : Sumatra.*Bubutus Isidori* Less., Traité d'Orn. 1830, p. 143 : no loc. = Sumatra.*Cuculus sumatrensis* Less., Traité d'Orn. 1830, p. 143 : as synonym.*Phenicophaus chlorocephalus* Eyton, Proc. Zool. Soc. 1839, p. 105 : new name for *C. chlorophæa*.*Phenicophaus viridirostris* Eyton, Proc. Zool. Soc. 1839, p. 105 : Malaya = Malacca.*Phenicophaus lucidus* Blyth, Journ. Asiat. Soc. Beng. xiii, 1844, p. 390 = Malacca.*Anadanus ruficauda* Peale, U.S. Explor. Exp. 1848, p. 142, pl. 39 : Singapore.*Rhinortha chlorophæa fuscigularis* Baker, Bull. Brit. Orn. Cl. xxxix, 1919, p. 77 : Borneo.

Distr.—Malay Peninsula.

Sumatra; Banka.

Borneo; North Bornean Islands.

Genus **PHENICOPHAUS** Vieillot.**Phenicophaus curvirostris** (Shaw and Nodd.). Chestnut-breasted Malkoha.**Phenicophaus curvirostris curvirostris** (Shaw).*Cuculus curvirostris* Shaw, Nat. Misc. 1810, pl. 905 : West Java.*Phenicophaus tricolor* Steph., Gen. Zool. ix, 1815, p. 61, pl. 14 : Africa error = Java.*Phenicophaus viridis* Vieill., Nov. Dict. d'Hist. Nat., xviii, 1818, p. 462 : Java.*Phenicophaus melanognathus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 178 : Java.*Phenicophaus viridirufus* Bp., Consp. Gen. Av., i, 1850, p. 98 : Java.

Distr.—Java (west and central).

**Phenicophaus curvirostris deningeri** Stres.*Phoenicophaes curvirostris deningeri* Stresemann, Nov. Zool. xx, 1913, p. 347 : Bali.

Distr.—Java (east); Bali.

**Phenicophaus curvirostris borneensis** (Blas. and Nehr.).*Rhamphococcyx erythrognaethus* var. *borneensis* Blasius and Nehrhorn, Jahresbr. des Vereins Nat. Braunschweig, 1881, p. 19 : Sarawak.*Phoenicophaes microrhinus* Berlepsch, Nov. Zool. ii, 1895, p. 70 : Borneo.

Distr.—Borneo; North Bornean Islands; North Natuna Islands.

**Phœnicophaus curvirostris erythrognathus** Bp.

*Phœnicophaeus erythrognathus* Bonaparte, Consp. Gen. Avium, i, 1850, p. 98: Sumatra.

*Rhamphococcyx curvirostris singularis* Parrot, Abh. Kon. Bay. Akad. Wiss. xxiv, 1907, p. 186: Sumatra.

*Distr.*—Malay Peninsula; Anamba Islands.  
Sumatra; Banka.

**Phœnicophaus curvirostris œneicaudus** J. and E. Verr.

*Phœnicophaeus œneicaudus* J. and E. Verreaux, Rev. Mag. Zool. 1855, p. 357: Ceylon error=Sipora Island, West Sumatra; (*Chas. and Kloss, 1926.*)

*Distr.*—Siberut, Sipora, North and South Pagi Islands, Mentawi Group, West Sumatra.

Genus **CARPOCOCCYX** G. R. Gray.

**Carpococcyx radiatus** (Temm.).

Pheasant-Cuckoo.

**Carpococcyx radiatus radiatus** (Temm.).

*Calobates radiceus* Temminck, Pl. Col. 538, 1832: Borneo.

*Distr.*—Borneo.

**Carpococcyx radiatus viridis** Salvad.

*Carpococcyx viridis* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 187: Sumatra.

*Distr.*—Sumatra.

Family **INDICATORIDÆ**.

Genus **INDICATOR** Stephens.

**Indicator archipelagicus** Temm.

Honey-Guide.

*Indicator archipelagicus* Temminck, Pl. Col. 542, fig. 1, 1832: Borneo.

*Indicator malayanus* Sharpe, Proc. Zool. Soc. 1878, p. 794: Malacca.

*Indicator archipelagicus inornatus* Neumann, Bull. Brit. Orn. Cl. xxi, 1908, p. 97: Klang, Selangor, Malay Peninsula.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.

## Family CAPITONIDÆ.

## Genus CALORHAMPHUS Lesson.

**Calorhamphus fuliginosus**<sup>1</sup> (Temm.). Brown Barbet.

**Calorhamphus fuliginosus hayi** (J. E. Gray).

*Bucco hayi* J. E. Gray, Zool. Misc. 1832, p. 33 : Malacca.

*Caloramphus sanguinolentus* Lesson, Rev. Zool. 1839, p. 139 : Sumatra.

*Megalorhynchus spinosus* Eyton, Proc. Zool. Soc. 1839, p. 106 : Malacca

*Distr.*—Malay Peninsula.

Sumatra.

**Calorhamphus fuliginosus fuliginosus** (Temm.).

*Mycropogon fuliginosus* Temminck, Pl. Col. text, livr. 83, 1830 :  
West Borneo (restr. Pontianak).

*Distr.*—Borneo (not north).

**Calorhamphus fuliginosus tertius** Chas. and Kloss.

*Calorhamphus fuliginosus tertius* Chasen and Kloss, Journ. f. Ornith.  
1929, ii, p. 110 : Bettotan near Sandakan, British North Borneo.

*Distr.*—Borneo (north).

## Genus CHOTOREA Bonaparte.

**Chotorea corvina** (Temm.). Brown-throated Barbet.

*Bucco corvinus* Temminck, Pl. Col. 522, 1830 : Java.

*Distr.*—Java (west and central).

**Chotorea chrysopogon** (Temm.). Gold-whiskered Barbet.

**Chotorea chrysopogon chrysopogon** (Temm.).

*Bucco chrysopogon* Temminck, Pl. Col. 285, 1824 : Sumatra.

*Distr.*—Sumatra.

**Chotorea chrysopogon laeta** Rob. and Kloss.

*Chotorea chrysopogon laetus* Robinson and Kloss, Journ. Fed.  
Malay States Mus. viii, p. 2, 1918, p. 141 : Bukit Tangga, Negri  
Sembilan, Malay States.

*Distr.*—Malay Peninsula.

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<sup>1</sup> *Bucco lathamii* Gmel. may apply to a form of this species, but Latham's "Buff-faced Barbet" on which *lathamii* was founded is described and figured with long rictal bristles : there is consequently a strong element of doubt about its identification, and we think it is more likely to be *Tetragonops frantzi* Scl., than *Xantholama hæmatocephala* P. L. S. Müll., in the synonymy of which it has been placed.

**Chotorea chrysopogon chrysopsis** (Goff.).

*Megalaima chrysopsis* Goffin, Mus. Pays-Bas, Buccones, 1863, p. 15 : Borneo.

*Distr.*—Borneo.

**Chotorea javensis** (Horsf.).

Black-banded Barbet.

*Bucco javensis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 181 : Java.

*Bucco kotorea* Temm., Pl. Col. livr. 88, 1831 : Java.

*Bucco tristis* Drap., Dict. Class. Hist. Nat. ii, 1822, p. 195 : Java.

*Distr.*—Java.

**Chotorea mystacophanes** (Temm.).

Gaudy Barbet.

**Chotorea mystacophanes mystacophanes** (Temm.).

*Bucco mystacophanos* Temminck, Pl. Col. 315, 1824 : Sumatra.

*Bucco quadricolor* Eyton, Proc. Zool. Soc. 1839, p. 105 : Malacca.

*Cyanops mystacophanes aurantiifrons* Rob. and Kloss, Journ. Nat. Hist. Soc. Siam, iii, 1919, p. 100 : Ghibi, Peninsular Siam.

*Distr.*—Malay Peninsula.

Sumatra.

**Chotorea mystacophanes humei** (C. and G. Marshall).

*Megalaema humei* C. and G. Marshall, Ibis, 1870, p. 536 : Sarawak.

*Distr.*—Borneo.

**\*Chotorea mystacophanes ampala** Oberh.

*Chotorea mystacophanes ampala* Oberholser, Smiths. Misc. Coll. 1x, 7, 1912, p. 6 : Tana Bala Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

**Chotorea rafflesii** (Less.).

Many-coloured Barbet.

**Chotorea rafflesii rafflesii** (Less.).

*Bucco Rafflesii* Lesson, Rev. Zool. 1839, p. 137 : Sumatra.

*Bucco versicolor* (nec P. L. S. Müller, 1776) Raffles, Trans. Linn. Soc. xiii, 1820, p. 284 : Sumatra.

*Distr.*—Sumatra; Banka.

**Chotorhea rafflesii malayensis** Chas.

*Chotorhea rafflesii malayensis* Chasen, Ornith. Monatsber. 1935, p. 147 : Pulau Ubin near Singapore.

*Distr.*—Malay Peninsula.

**Chotorhea rafflesii billitonis** Chas.

*Chotorhea rafflesii billitonis* Chasen, Ornith. Monatsber. 1935, p. 147 : Billiton Island.

*Distr.*—Billiton; Mendanau.

**Chotorea rafflesii borneensis** Blas.

*Chotorea versicolor borneensis* Blasius, Verh. z. b. Ges. Wien, xxxiii, 1883, p. 25: South-east Borneo.

*Distr.*—Borneo.

Genus **CYANOPS** Bonaparte.**Cyanops asiatica** (Lath.).

Blue-throated Barbet.

[**Cyanops asiatica asiatica** (Lath.).

*Trogon asiaticus* Latham, Index Orn. i, 1790, p. 201: India.

*Distr.*—Extra-limital.]

**Cyanops asiatica chersonesus** Chas. and Kloss.

*Cyanops asiatica chersonesus* Chasen and Kloss, Bull. Brit. Orn. Cl. xlviii, 1927, p. 46: Khao Luang, Nakawn Sritarmarat, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Cyanops armillaris** (Temm.).

Blue-crowned Barbet.

**Cyanops armillaris armillaris** (Temm.).

*Bucco armillaris* Temminck, Pl. Col. 89, 1823: Java: restr. Province of Bantam, West Java.

*Distr.*—Java (west and central).

**Cyanops armillaris baliensis** Rensch.

*Cyanops armillaris baliensis* Rensch, Orn. Monatsber. xxxvi, 1828, p. 80: Bali.

*Distr.*—Java (extreme east);<sup>1</sup> Bali.

**Cyanops armillaris henricii** (Temm.).

*Bucco henricii* Temminck, Pl. Col. 524, 1831: Sumatra.

*Bucco malaccensis* Hartl., Rev. Zool. 1842, p. 336: Malacca.

*Distr.*—Malay States.

Sumatra.

**Cyanops armillaris brachyrhyncha** Neum.

*Cyanops henricii brachyrhyncha* Neumann, Bull. Brit. Orn. Cl. xxiii, 1908, p. 30: Baram, Sarawak.

*Distr.*—Borneo.<sup>2</sup>

<sup>1</sup> A large series from Banjoewangi, East Java, seems just separable on average characters, from *armillaris* of West Java.

<sup>2</sup> *C. henricii* seems to be rare in its type locality and we have never been able to compare a series of topotypes with birds from the Malay States and Borneo.

**Cyanops armillaris pulcherrima** (Sharpe). Yellow-headed Barbet.  
*Megalæma pulcherrima* Sharpe, Ibis, 1888, p. 393; Mt. Kinabalu,  
 North Borneo.

*Distr.*—Borneo.

**Cyanops franklinii** (Blyth). Golden-throated Barbet.

[**Cyanops franklinii franklinii** (Blyth).]

*Bucco Franklinii* Blyth, Journ. Asiat. Soc. Beng. xi, 1842, p. 167 :  
 Darjeeling.

*Distr.*—Extra-limital.]

**Cyanops franklinii minor** Chas. and Kloss.

*Cyanops franklini minor* Chasen and Kloss, Bull. Brit. Orn. Cl. xlvii,  
 1926, p. 57 : Mt. Ijau, Perak, Malay States.

*Distr.*—Malay States.

\***Cyanops franklinii trangensis** Riley.

*Cyanops franklini trangensis* Riley, Proc. Biol. Soc. Wash. xlvii,  
 1934, p. 116 : Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Cyanops oorti** (S. Müll.). Müller's Barbet.

**Cyanops oorti oorti** (S. Müll.).

*Bucco Oorti* Sal. Müller, Tijds. Nat. Ges. Phys. ii, 1835, p. 341,  
 pl. iv, fig. 4 : Sumatra.

*Distr.*—Malay States.  
 Sumatra.

**Cyanops oorti monticola** Sharpe. Mountain Barbet.

*Cyanops monticola* Sharpe, Ann. Mag. Nat. Hist. (6) iii, 1889,  
 p. 424 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Cyanops australis**<sup>1</sup> (Horsf.). Little Barbet.

**Cyanops australis australis** (Horsf.).

*Bucco australis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 101 :  
 Java.

*Distr.*—Java.

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<sup>1</sup> If "*Bucco cyanocephalus*" Reinw., Batav. Courant, Feb. 1820, is a valid description it is, perhaps, the species name for this group of small barbets, but as in the case of other references to the "Batav. Courant" given in Cat. Bds. xix, I cannot trace the original.



**\*Cyanops australis hebereri** (Rensch).<sup>1</sup>

*Xantholaema australis hebereri* Rensch, Mitt. Zool. Mus. Berlin, xvi, 1930, p. 532 : Bali.

*Distr.*—Bali.

**Cyanops australis duvaucelii** (Less.).

*Bucco duvaucelii* Lesson, Traité Ornith. 1830, p. 164 : Sumatra.

*Megalama duvauceli borneonensis* Parrot, Abh. Kon. Bay. Akad. Wiss., Klass 2, 24, i, 1907 : Borneo.

*Cyanops duvauceli robinsoni* Baker, Bull. B. O. Cl. xxxix, 1918, p. 20 : Klang, Selangor, Malay States.

*Bucco frontalis* Temm., Pl. Col. 536, fig. 1, 1832 : Sumatra.

*Distr.*—Malay Peninsula (north to Perlis).

Sumatra; Banka.

Borneo.

**Cyanops australis stuarti** (Rob. and Kloss).

*Mesobucco duvauceli stuarti* Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, iii, 1918, p. 100 : Junk Seylon.

*Distr.*—Peninsular Siam.

**\*Cyanops australis gigantorhina** (Oberh.).

*Mesobucco duvaucelii gigantorhinus* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 6 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**\*Cyanops australis tanamassae** (de Schau.).

*Mesobucco duvauceli tanamassae* de Schauensee, Proc. Acad. Nat. Sci. Phil. lxxxix, 1929, p. 521 : Tana Masa Island, Batu Islands, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

**Cyanops australis eximia** (Sharpe).

*Mesobucco eximius* Sharpe, Ibis, 1892, p. 324 : Mt. Dulit, Sarawak.

*Distr.*—Borneo (part).

**Cyanops australis cyanea** (Harr. and Hart.).<sup>2</sup>

*Mesobucco duvaucelii cyaneus* Harrison and Hartley, Bull. Brit. Orn. Cl. liv, 1934, p. 151 : Mt. Kinabalu, N. Borneo.

*Distr.*—Mt. Kinabalu, North Borneo.

<sup>1</sup> We have not seen *hebereri*, but the difference in size between it and *australis* must be very slight : the maximum wing length of our series of the latter form from West Java is 77 mm. and from East Java 78 mm.

<sup>2</sup> The type is a female, wrongly sexed on the label ; other than this the race seems to rest on one male and an unsexed juvenile (measurements reversed in the original description) in the Singapore Museum.

Genus **THEREICERYX** Blanford.**Thereiceryx zeylanicus** (Gmel.). Dull Barbet.[**Thereiceryx zeylanicus zeylanicus** (Gmel.).*Bucco Zeylanicus* Gmelin, Syst. Nat. i, pt. i, 1788, p. 408: Ceylon.*Distr.*—Extra-limital.]**Thereiceryx zeylanicus intermedius** Baker.<sup>1</sup>*Thereiceryx lineatus intermedius* Stuart Baker, Bull. B.O. Cl. xxxix, 1918, p. 19: North Tenasserim.*Distr.*—Malay Peninsula (not in the Federated Malay States).**Thereiceryx zeylanicus lineatus** (Vieill.).<sup>2</sup>*Capito lineatus* Vieillot, Nov. Dict. Hist. Nat. iv, 1816, p. 500: Java (*Stresemann*).*Bucco fuscicapillus* Drap., Dict. Class, ii, 1822, p. 195: Java.*Distr.*—Java; Bali.Genus **XANTHOLÆMA** Bonaparte.**Xantholæma hæmacephala** (P. L. S. Müll.). Coppersmith Barbet.[**Xantholæma hæmacephala hæmacephala** (P. L. S. Müll.).*Bucco hæmacephalus* P. L. S. Müller, Natursyst. Suppl., 1776, p. 88: Philippine Islands.*Distr.*—Extra-limital.]**Xantholæma hæmacephala indica** (Lath.).*Bucco indicus* Latham, Index Orn. i, 1790, p. 205: India.*Distr.*—Malay Peninsula (not in the south).**Xantholæma hæmacephala delica** (Parrot).*Megalaema hæmacephala delica* Parrot, Abh. Kon. Bay. Akad. Wiss. 2. Kl. 24. Bd. 1. Abt., 1907, p. 169: Deli, Sumatra.*Distr.*—Sumatra.

<sup>1</sup> We do not agree with C. B. Ticehurst (Journ. Bomb. Nat. Hist. Soc. xxxiv, 1930, p. 470) that this race is unrecognizable (119—139 mm. which is the range given by him for northern birds seems a very large range for one race) but we think it is probably the same as *McClellandi* Horsf. and Moore, Cat. Birds. Mus. East Ind. Coy. ii, 1858, p. 637 (North-east Bengal).

<sup>2</sup> Although it is possible that this race occurs in Cochin China "*lineatus*" cannot be used to cover the large birds occurring in other parts of French Indo-China.

**Xantholæma hæmacephala rosea** (Dum.).<sup>1</sup>*Bucco roseus* Dumont, Dict. Sci. Nat. iv, 1806, p. 52: Java.*Capito rosaceicollis* Vieill., Nov. Dict. Hist. Nat. iv, 1816, p. 500: Java.*Distr.*—Java; Bali.

Sumatra (south).

Genus **PSILOPOGON** S. Müller.**Psilopogon pyrolophus** S. Müll.

Fire-tufted Barbet.

*Psilopogon pyrolophus* S. Müller, Tijd. Nat. Gesch. Phys. ii, 1835, p. 339, Pl. iv, fig. 3: Sumatra.*Buccotrogon torquatus* Von Kreling, Jahr. Nat. Gesch. Emden, 1852, p. 20 (not seen; fide Cat. Bds. xix, p. 98.).*Distr.*—Malay States.

Sumatra.

Family **PICIDÆ**.<sup>2</sup>Genus **PICUS** Linn.**Picus vittatus**<sup>3</sup> Vieill.

Bamboo Green Woodpecker.

**Picus vittatus vittatus** Vieill.*Picus vittatus* Vieillot, Nov. Dict. d'Hist. Nat. xxvi, 1818, p. 91: Java (Hartert, 1902; restr. *West Java*, Stresemann, 1921).*Picus affinis* Raffles, Trans. Linn. Soc. xiii, 1822, p. 288: Sumatra.*Picus dimidiatus* Valenc. (ex Horsf. MS.), Dict. Nat. Sci. xl, 1826, p. 174: Java.*Gecinus xanthopygius* Bp., Consp. Gen. Av. i, 1850, p. 127: Java.*Distr.*—Malay States.

Sumatra; Lingga Archipelago.

Java (west).

**Picus vittatus limitans** Stres.*Picus vittatus limitans* Stresemann, Arch. f. Naturgesch. lxxxvii, 1921, Ab. A, Heft 7, p. 74: East Kangean Island.*Distr.*—Java (east); Bali; Kangean Islands.

<sup>1</sup> We follow Bartels and Stresemann and treat *rosea* as a subspecies of *hæmacephala* but it must be noted that both forms have been recorded from the Lampongs: the only record for *rosea* seems to be that of the two birds obtained by Buxton and recorded by Walden (Ibis, 1877, p. 487) and it is time that the presence of *rosea* in Sumatra, if correct, was confirmed.

<sup>2</sup> Cf. Stres., "Die Spechte der Insel Sumatra", Archiv. f. Naturg. 1921, p. 64; Hesse, Kritische Untersuchungen über Piciden im Berlin p. 64; Hesse, Kritische Untersuchungen über Piciden im Berlin Mus., Mitt. Zool. Mus. Berl. vi, 1912, p. 133.

<sup>3</sup> Cf. Kloss, Ibis, 1926, p. 684.

**Picus vittatus connectens** (Rob. and Kloss).

*Gecinus vittatus connectens* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 13: Langkawi Islands, Straits of Malacca.

*Distr.*—Langkawi Islands, Straits of Malacca.

**Picus viridanus**<sup>1</sup> Blyth.

Scaly-bellied Woodpecker.

[**Picus viridanus viridanus** Blyth.

*Picus viridanus* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843-44, p. 1000: Arracan.

*Distr.*—Extra-limital.]

**Picus viridanus weberi** Müll.

*Gecinus weberi* Müller, Orn. Ins. Salanga, 1882, p. 69 (sep.): Junk Seylon.

*Picus viridanus meridianus* Kloss, Ibis, 1926, p. 689: Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Picus canus**<sup>2</sup> Gmel.

Black-naped Green Woodpecker.

[**Picus canus canus** Gmel.

*Picus canus* Gmelin, Syst. Nat. 1, pt. 1, 1788, p. 434: Norway.

*Distr.*—Extra-limital.]

**Picus canus robinsoni** (O.-Grant).

*Gecinus robinsoni* Ogilvie-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 10: Gunong Tahan, Pahang, Malay States.

*Distr.*—Malay States.

**Picus canus dedemi** (van Oort).

*Gecinus dedemi* van Oort, Notes Leyden Mus., xxxiv, 1911, p. 59: Battak Mountains, North-east Sumatra.

*Distr.*—Sumatra.

**Picus chlorolophus** Vieill.<sup>3</sup>

Small Yellow-naped Woodpecker.

[**Picus chlorolophus chlorolophus** Vieill.

*Picus chlorolophus* Vieillot, Nouv. Dict. Hist. Nat. xxvi, 1818, p. 78: Bengal.

*Distr.*—Extra-limital.]

**Picus chlorolophus rodgeri** (Hart. and Butlr.).

*Gecinus rodgeri* Hartert and Butler, Nov. Zool. v, 1898, p. 508: Mt. Ijau, Perak, Malay States.

*Distr.*—Malay States.

<sup>1</sup> Cf. Kloss, Ibis, 1926, p. 684.

<sup>2</sup> Revision: Snouck. v. Schaub., Org. Cl. Ned. Vog. v, 1932, p. 4.

<sup>3</sup> Cf. Meinertzh., Bull. B. O.. C. xlv, 1924, p. 53.

**Picus chlorolophus vanheysti** (Rob. and Kloss).

*Brachylophus chlorolophus vanheysti* Robinson and Kloss, Journ. Straits Branch Roy. Asiat. Soc. lxxx, 1919, p. 97 : Sumatra.

*Distr.*—Sumatra.

**Picus puniceus** Horsf.

Crimson-winged Woodpecker.

**Picus puniceus puniceus** Horsf.

*Picus puniceus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 176 : Java.

*Picus gularis* Wagl., Syst. Av. Add., *Picus*, sp. no. 6, (nec no. 89) ♀ 1827.

*Distr.*—Java.

**Picus puniceus continentis** (Rob. and Kloss).

*Brachylophus puniceus continentis* Robinson and Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 204 : Tapli, Pakchan Estuary, Peninsular Siam.

*Distr.*—Malay Peninsula.

**Picus puniceus observandus** Hart.

*Gecinus puniceus observandus* Hartert, Nov. Zool. iii, 1896, p. 542 : Sumatra.

*Distr.*—Sumatra; Banka; Nias Island, West Sumatra. Borneo.

Genus **CALLOLOPHUS** Salvadori.

**Callolophus miniaceus** (Penn.).

Banded Red Woodpecket.

**Callolophus miniaceus miniaceus** (Penn.).

*Picus mineaceus* Pennant, Ind. Zool. 1769, pl. 4 : India, error = Java.

*Distr.*—Java (west and central).

**Callolophus miniaceus malaccensis** (Lath.).

*Picus malaccensis* Latham, Index Orn. i, 1790, p. 241 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Banka; Billiton.

Borneo (north-west).<sup>1</sup>

**Callolophus miniaceus dayak** Stres.

*Callolophus miniatus dayak* Stresemann, Archiv. f. Naturgesch. lxxxvii, 1921, Ab. A, Heft 7, p. 82 : Landak, West Borneo.

*Distr.*—Borneo.

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<sup>1</sup> *C. m. dayak* is a good race apparently occupying most of Borneo but this larger winged form occurs on the lower slopes of Mt. Kinabalu.

**Callolophus miniaceus niasensis** (Bütt.).

*Chrysophlegma niasense* Büttikofer, Notes Leyden Mus. xviii, 1896,  
p. 169: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

Genus **CHRY SOPHLEGMA** Gould.

**Chrysophlegma mentale** (Temm.). Chequered-throated Woodpecker.

**Chrysophlegma mentale mentale** (Temm.).

*Picus mentalis* Temminck, Pl. Col. 384, 1825: Java.

*Picus squamicollis* Less., Traité d'Ornith. 1831, p. 229: Java.

*Distr.*—Java.

**Chrysophlegma mentale humii** Harg.

*Chrysophlegma humii* Hargitt, Ibis, 1889, p. 231: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Banka.

Borneo (western half).

**Chrysophlegma mentale saba** Chas. and Kloss.

*Chrysophlegma mentale saba* Chasen and Kloss, Journ. f. Ornith.  
1929, ii, p. 111: Sandakan, British North Borneo.

*Distr.*—Borneo (east).

**Chrysophlegma flavinucha** (Gould). Large Yellow-naped Woodpecker.

[**Chrysophlegma flavinucha flavinucha** (Gould).]

*Picus flavinucha* Gould, Proc. Zool. Soc. for 1833, 1834, p. 120:  
East Himalayas.

*Distr.*—Extra-limital.]

**Chrysophlegma flavinucha wrayi** Sharpe.

*Chrysophlegma wrayi* Sharpe, Proc. Zool. Soc. 1888, p. 279: Mts.  
of Perak, Malay States.

*Distr.*—Malay States.

**Chrysophlegma flavinucha mystacale** Salvad.

*Chrysophlegma mystacalis* Salvadori, Ann. Mus. Civ. Gen. xiv,  
1879, p. 182: Sumatra.

*Distr.*—Sumatra.

Genus **CHLOROPICOIDES** Malherbe.

**Chloropicoides rafflesii** (Vig.). Three-toed Woodpecker.

**Chloropicoides rafflesii rafflesii** (Vig.).

*Picus Rafflesii* Vigors, Raff. Mem. 1831, App. p. 669: Sumatra.

*Tiga amictus* Gray, Gen. Birds. ii, 1846, p. 441: nom. nud.

*Picus (Tiga) labarum* Less., Ois. réc. découv. 1847, p. 199: Sumatra (Duvaucel).

*Distr.*—Sumatra; Banka.

**Chloropicoides rafflesii peninsularis** Hesse.

*Gauropicoides rafflesii peninsularis* Hesse, Ornith. Monatsber. xix, 1911, p. 192: Malacca.

*Distr.*—Malay Peninsula.

**Chloropicoides rafflesii borneonensis** Hesse.

*Gauropicoides rafflesii borneonensis* Hesse, Orn. Monatsber. xix, 1911, p. 192: Mt. Dulit, North Sarawak, Borneo.

*Distr.*—Borneo.

Genus **GE CINULUS** Blyth.

**Gecinulus grantia** (Horsf.). Pale-headed Woodpecker.

[**Gecinulus grantia grantia** (Horsf.).

*Picus Grantia* Horsfield, Proc. Zool. Soc. for 1839, 1840, p. 165: Assam.

*Distr.*—Extra-limital.]

**Gecinulus grantia robinsoni** Kloss.

*Gecinulus viridis robinsoni* Kloss, Ibis, 1918, p. 105: Ginting Bidei, Selangor—Pahang boundary, Malay States.

*Distr.*—Malay Peninsula.<sup>1</sup>

Genus **DRYOBATES** Boie.

**Dryobates analis** (Bp.). Spotted-breasted Pied Woodpecker.

**Dryobates analis analis** (Bp.).

*Picus analis* Bonaparte, Consp. Gen. Av. i, 1850, p. 137: Java, restr. East Java.

*Dendrocophus a. brevipennis* Hesse, Ornith. Monatsber. 1911, p. 182: Java.

*Distr.*—Sumatra.<sup>2</sup>

Java; Bali.

<sup>1</sup> Specimens from Peninsular Siam are intermediate between *robinsoni* and *viridis* Blyth (Tenasserim).

<sup>2</sup> The locality "Sumatra" rests on Walden's record of birds collected by E. G. Buxton in the Lampongs (Ibis, 1877, p. 290). As in the case of *Xantholæma rosea* confirmation is needed. Büttikofer considers that the "*Picus percussus*" of Nieuwenhuisen and Rosenberg from Nias is also *D. analis* (Notes Leyd. Mus. xviii, 1896, p. 195).

**Dryobates analis montis** Rob. and Kloss.

*Dryobatis analis montis* Robinson and Kloss, Journ. Fed. Malay States Mus. xi, 1923, p. 53: Tjibodas, West Java.

*Distr.*—Java<sup>1</sup> (mountains of west).

**Dryobates hardwickii** (Jerd.).

Pigmy Woodpecker.

[**Dryobates hardwickii hardwickii** (Jerd.).

*Picus (Dendrocopus) hardwickii* Jerdon, Madras Journ. Lit. Sci. xiii, 1844: South India.

*Distr.*—Extra-limital.]

**Dryobates hardwickii canicapillus** (Blyth).

*Picus canicapillus* Blyth, Journ. Asiat. Soc. Beng. xiv, 1845, p. 197: Arracan.

*Distr.*—Peninsular Siam.

**Dryobates hardwickii auritus** (Eyton).

*Tripsurus auritus* Eyton, Ann. & Mag. Nat. Hist. xvi, 1845, p. 229: Malacca.

*Dryobates canicapillus suffusus* Rob. and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 14: Kuala Lumpur, Selangor, Malay States.

*Distr.*—Malay States.

**\*Dryobates hardwickii volzi** Stres.

*Dryobates canicapillus volzi* Stresemann, Verh. Orn. Ges. Bayern, xiv, 1920, p. 288: Laut Tawar, North Sumatra.

*Distr.*—Sumatra.

**Dryobates hardwickii aurantiiventris** (Salvad.).

*Picus (Bæopipo) hardwickii aurantiiventris* Salvadori, Atti R. Ac. Sci. Torino, iii, 1868, p. 524: Sarawak.

*Iyngipicus picatus* Hargitt, Ibis, 1882, p. 41: North-west Borneo.

*Distr.*—Borneo.<sup>2</sup>

**Dryobates moluccensis** (Gmel.).

Lesser Pigmy Woodpecker.

**Dryobates moluccensis moluccensis** (Gmel.).

*Picus moluccensis* Gmelin, Syst. Nat. i, pt. i, 1788, p. 439: Malacca (Oberholser).

*Picus variegatus* Wagl. (nec Lath.), Syst. Av. Gen. Picus. sp. 26, 1827: Java.

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<sup>1</sup> This race does not inhabit the whole of West Java but only the hills in that part of the island: birds from Wynkoops Bay on the south coast are like typical *analis*. Our series consists of eleven *montis* against eighteen *analis*.

<sup>2</sup> Kuroda has recorded "*picatus*" from Tawao on the east coast of British North Borneo and there is just a possibility that it is a good race with a very limited range.



PICIDÆ.

*lyngipicus fusco-albidus* Salvad., Ucc. Born. 1874, p. 42: Java (new name for *P. variegatus* Wagl.).

*Picus sondaicus* Salvad., Ucc. Born. 1874, p. 43: Java.

*lyngipicus frater* Salvad. and Gigl., Atti della R. Accad. Sc. Tor. xx, 1885, p. 824: Malacca.

*Dryobates moluccensis tantulus* Riley, Proc. Biol. Soc. Wash. xl. 1927, p. 140: Tanggarong, N. E. Borneo.

*Distr.*—Malay States.

Sumatra; Rhio Archipelago; Billiton.

Borneo; North Borneo Islands.

Java; Bali.

Genus **BLYTHIPICUS** Bonaparte.

**Blythipicus rubiginosus** (Swains.). Maroon Woodpecker.

**Blythipicus rubiginosus rubiginosus** (Swains.).

*Hemicircus rubiginosus* Swainson in Jardine's Nat. Libr., Birds West Africa, ii, 1837, p. 150: West Africa error = Malacca (Hartlaub).

*Picus melanogaster* Hay, Madr. Journ. 1844, p. 153: Malacca.

*Distr.*—Malay Peninsula.

**Blythipicus rubiginosus parvus** Chas. and Kloss.

*Blythipicus rubiginosus parvus* Chasen and Kloss, Journ. f. Ornith. 1929, ii, p. 112: Bettotan near Sandakan, British North Borneo.

*Distr.*—Sumatra.

Borneo.

**Blythipicus pyrrhotis** (Hodgs.).<sup>1</sup> Bay Woodpecker.

[**Blythipicus pyrrhotis pyrrhotis** (Hodgs.).

*Picus pyrrhotis* Hodgson, Journ. Asiat. Soc. Bengal, vi, 1837, p. 108: Nepal.

*Distr.*—Extra-limital.]

**Blythipicus pyrrhotis cameroni** Rob.

*Blythipicus pyrrhotis cameroni* Robinson, Bull. Brit. Orn. Cl. xlviii, 1928, p. 57: Mt. Mengkuang Lebah, Selangor, Malay States.

*Distr.*—Malay States.

Genus **MEIGLYPTES** Swainson.

**Meiglyptes tristis** (Horsf.). Fulvous-rumped Barred Woodpecker.

**Meiglyptes tristis tristis** (Horsf.).

*Picus tristis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 177: Java.

*Picus poecilophus* Temm., Pl. Col. 197, 1823: Java.

*Distr.*—Java.

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<sup>1</sup> Cf. Kinn., Bull. B. O. C. xlv, 1926, p. 72.

**Meiglyptes tristis micropterus** Hesse.

*Meiglyptes tristis micropterus* Hesse, Orn. Monatsber. xix, 1911,  
p. 182 : Borneo.

*Distr.*—Sumatra.

Borneo; North Bornean Islands; North Natuna Islands.

**Meiglyptes tristis grammithorax** (Malh.).

*Phaiopicus grammithorax* Malherbe, Monogr. Pic. ii, p. 12, 1862,  
pl. 48 : Malay Peninsula.

*Distr.*—Malay Peninsula.

**\*Meiglyptes tristis microterus** Oberh.

*Meiglyptes grammithorax microterus* Oberholser, Smiths. Misc. Coll.  
lx, 7, 1912, p. 6 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**Meiglyptes tukki** (Less.). Buff-necked Barred Woodpecker.

**Meiglyptes tukki tukki** (Less.).

*Picus tukki* Lesson, Rev. Zool. 1839, p. 167 : Sumatra.

*Hemicircus brunneus* Eyton, Proc. Zool. Soc. 1839, p. 106 : Malacca.

*Picus luridus* Nitzsch, Pterylog. 1840, p. 137 : Sumatra.

*Meiglyptes fuscus* Peale, U.S. Expl. Exped. viii, 1848, p. 132 : Singapore.

*Meiglyptes tukki asaleus* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 46 :  
Bunguran Island, North Natuna Islands.

*Distr.*—Malay Peninsula.

Sumatra; Billiton.

Borneo; North Natuna Islands.

**\*Meiglyptes tukki percnerpes** Oberh.

*Meiglyptes tukki percnerpes* Oberholser, Journ. Wash. Acad. Sci.  
xiv, 13, 1924, p. 301 : Batu Jurong, South-west Borneo.

*Distr.*—Borneo (South-west).

**Meiglyptes tukki pulonis** Chas. and Kloss.

*Meiglyptes tukki pulonis* Chasen and Kloss, Journ. f. Ornith. 1929,  
ii, p. 112 : Banguay Island, North Borneo.

*Distr.*—Banguay Island, North Borneo.

**\*Meiglyptes tukki calceuticus** Oberh.

*Meiglyptes tukki calceuticus* Oberholser, Smiths. Misc. Coll. lx, 7,  
1912, p. 6 : Tuanaku Island, Banjak Islands, West Sumatra.

*Distr.*—Banjak Islands, West Sumatra.

**\*Meiglyptes tukki infuscatus** Salvad.

*Miglyptes infuscatus* Salvadori, Ann. Mus. Civ. Stor. Nat. Genov.  
(2) iv, 1887, p. 531 : Nias Island, West Sumatra.

*Meiglyptes tukki hylodromus* Oberh., Journ. Wash. Acad. Sci. xiv,  
No. 13, 1924, p. 301 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

PICIDÆ.

Genus **MICROPTERNUS** Blyth.

**Micropternus brachyurus** (Vieill.). Rufous Woodpecker.

**Micropternus brachyurus brachyurus** (Vieill.).

*Picus brachyurus* Vieillot, Nouv. Dict. Hist. Nat. xxvi, 1818, p. 103 : Java.

*Distr.*—Java (not east).

**Micropternus brachyurus badius** (Raffles).

*Picus badius* Raffles, Trans. Linn. Soc. xiii, 1822, p. 289 : Sumatra.

*Distr.*—Sumatra; Banka; Billiton and Mendanau Islands.

\***Micropternus brachyurus celaenephis** Oberh.

*Micropternus phaiiceps celaenephis* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 6 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

**Micropternus brachyurus squamigularis** (Sundev.).

*Picus squamigularis* Sundevall, Consp. Av. Picin. 1866, p. 89 : Malacca.

*Distr.*—Malay Peninsula.<sup>1</sup>

**Micropternus brachyurus badius** (Bp.).

*Meiglyptes badius* Bonaparte, Consp. Gen. Avium, i, 1850, p. 113 : Borneo.

*Distr.*—Borneo; North Natuna Islands.

Genus **DINOPIUM** Rafinesque.

**Dinopium javanense** (Ljungh). Golden-backed Three-toed Woodpecker.

**Dinopium javanense javanense** (Ljungh).

*Picus javanensis* Ljungh, Kon. Vet. Akad. Handl. xvii, 1797, p. 134, pl. 6 : Batavia, West Java.

*Picus tiga* Horsf., Trans. Linn. Soc. xiii, 1821, p. 177 : Java.

*Chrysonotus tridactylus* Swains., Class. Birds, ii, 1837, p. 309 : new name.

*Tiga rufa* Stoliczka, Journ. Asiat. Soc. Bengal, xxxix, 1870, p. 289 : ?renaming of *tridactylus*.

*Dinopium javanense palmarum* Stres., Arkiv. f. Naturgesch. 1921, Ab. A, Heft 7, p. 93 : Fort de Kock, West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Java (west and central).

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<sup>1</sup> Birds from Peninsular Siam are intermediate between *squamigularis* and *williamsoni* Kloss (Koh Lak, S. W. Siam).

**Dinopium javanense exsul** Hart.

*Tiga javanensis exsul* Hartert, Nov. Zool. viii, 1901, p. 51: Bali.

*Distr.*—Java (east); Bali.

**Dinopium javanense intermedium** (Blyth).

*Picus (Tiga) intermedius* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 193: Ramree Island, Arracan.

*Distr.*—Peninsular Siam (extreme north).

**Dinopium javanense borneonensis** (Dub.).

*Tiga borneonensis* Dubois, Proc. Zool. Soc. 1897, p. 782: Borneo.

*Distr.*—Borneo.

**\*Dinopium javanense raveni** Riley.

*Dinopium raveni* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 139: Eraban Island, North-east Borneo.

*Distr.*—Eraban Island and ? Eastern Borneo.

Genus **CHRYSOCOLAPTES** Blyth.

**Chrysocolaptes lucidus**<sup>1</sup> (Scop.). Golden-backed Four-toed Wood-pecker.

[**Chrysocolaptes lucidus lucidus** (Scop.).

*Picus lucidus* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 89: Mindanao, Philippine Islands.

*Distr.*—Extra-limital.]

**Chrysocolaptes lucidus gutticristatus** (Tick.).

*Picus guttacristatus* Tickell, Journ. Asiat. Soc. Bengal, ii, 1833, p. 578: Borabhum.

*Chrysocolaptes gutticristatus indo-malayicus* Hesse, Orn. Monatsber. xix, 1911, p. 182: Junk Seylon.

*Distr.*—Peninsular Siam (south to Langkawi Islands).

**Chrysocolaptes lucidus chersonesus** Kloss.

*Chrysocolaptes strictus chersonesus* Kloss, Ibis, 1918, p. 113: Sikarang, South Johore.

*Distr.*—Malay States (extreme south and Singapore Island).

Sumatra; Rhio Archipelago.

Java (west and central).

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<sup>1</sup> Cf. Rob., Journ. F.M.S. Mus. vii, 1917, p. 161.

**Chrysocolaptes lucidus strictus** (Horsf.).<sup>1</sup>

*Picus strictus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 176: Java.

*Distr.*—Java; Bali; Kangean Islands.

**Chrysocolaptes validus** (Temm.).

**Chrysocolaptes validus validus** (Temm.).

*Picus validus* Temminck, Pl. Col. 378, 1825: Java.

*Distr.*—Java (west and central).

**Chrysocolaptes validus xanthopygius** Finsch.

*Chrysocolaptes xanthopygius* Finsch, Notes Leyden Mus. xxvi, 1905, p. 34: Upper Mahakam River, West Borneo.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

Genus **HEMICIRCUS** Swainson.

**Hemicircus concretus** (Temm.). Grey-and-Buff Woodpecker.

**Hemicircus concretus concretus** (Temm.).

*Picus concretus* Temminck, Pl. Col. 90, 1824: Java.

*Distr.*—Java (west and central).

**Hemicircus concretus coccometopus** (Reichb.).

*Hemicircus coccometopus* Reichenbach, Scans. Picinae, 1854, p. 401, pl. 656: Sumatra.

*Hemicircus brookeanus* Salvad., Atti. R. Ac. Sc. Tor. iii, 1868, Sarawak, Borneo.

*Distr.*—Sumatra; Banka Island.

Borneo.

**Hemicircus concretus sordidus** (Eyton).

*Dendropicus sordidus* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 229: Malacca.

*Distr.*—Malay Peninsula.

**Hemicircus canente** (Less.). Heart-spotted Woodpecker.

**Hemicircus canente canente** (Less.).

*Picus canente* Lesson, Cent. Zool. 1832, p. 215: Pegu.

*Distr.*—Peninsular Siam.

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<sup>1</sup> There is broadly speaking a large overlap in the range of *gutticristatus* and *strictus* in Java but at present we prefer to retain both forms as sub-species of *lucidus*: *strictus* seems to be found only in the mountains; commonly in East Java and very rarely in West Java. *C. l. gutticristatus* is rare in Java and according to the information at our disposal seems to occur only on the coastland in the western half of the island: it is perhaps a recent arrival from Sumatra.

Genus **MÜLLERIPICUS** Bonaparte.

**Mülleripicus pulverulentus** (Temm.). Great Slaty Woodpecker.

**Mülleripicus pulverulentus pulverulentus** (Temm.).<sup>1</sup>

*Picus pulverulentus* Temminck, Pl. Col. 389, 1826: Java.

*Picus gutturalis* Valenc., Dict. Sc. Nat. xl, 1826, p. 178: Sumatra.

*Picus mackloti* Wagl., Syst. Av. Picus, 1827, sp. 4: Sumatra.

*Picus horsfieldi* Wagl., Syst. Av. Picus, 1827, sp. 5: Java.

*Hemilophus mülleri* Bp., Consp. Gen. Av. i, 1850, p. 131: Borneo.

*Hemilophus fischeri* Brügg., Abhandl. Nat. Ver. Brem. 1877, p. 454: Borneo.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo; North Natuna Islands.

Java (not in the east).

Genus **DRYOCOPUS**<sup>2</sup> Boie.

**Dryocopus javensis** (Horsf.). Great Black Woodpecker.

**Dryocopus javensis javensis** (Horsf.).

*Picus javensis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 175: Java.

*Picus leucogaster* Valenc., Dict. Sci. Nat. xl, 1827, p. 178: Java (Stresemann, 1913).

*Picus horsfieldi* Wagl., Syst. Av. 1827, *Picus*, sp. 5: new name for *P. javensis*.

*Picus fulvigaster* Drap., Dict. Class. Hist. Nat. xiii, 1828, p. 503: Java.

*Picus maximus malayensis* Bland, Journ. Asiat. Soc. Bengal, vi, 1837, p. 952: Johore.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Mansalar Island, West Sumatra.

Borneo; North Natuna Islands; North Bornean Islands.

Java; Bali.

**Dryocopus javensis parvus** (Richm.).

*Thriponax parvus* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 189: Simalur Island, West Sumatra.

*Distr.*—Simalur Island, West Sumatra.

**\*Dryocopus javensis büttikoferi** (Richm.).

*Thriponax javensis büttikoferi* Richmond, Proc. Biol. Soc. Wash. xxv, 1912, p. 104: Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

<sup>1</sup> We have never been able to compare good series of this species from the Sunda Islands. A single bird from Borneo is darker than a fair series from the Malay States. Birds from the Langkawi Islands northwards are *pulverulentus* > *harterti*.

<sup>2</sup> Cf. Stres., Nov. Zool. xx, 1913, p. 317.

Genus **VIVIA** Hodgson.

**Vivia innominata** (Burt.). Speckled Piculet.

[**Vivia innominata innominata** (Burt.).

*Picumnus innominatus* Burton, Proc. Zool. Soc. for 1835, 1836,  
p. 154: Himalayas.

*Distr.*—Extra-limital.]

**Vivia innominata malayorum** (Hart.).

*Picumnus innominatus malayorum* Hartert, Vög. pal. Faun. Heft  
vii, 1912, p. 937: Perak, Malay States.

*Distr.*—Malay States.

Sumatra.

Borneo.

Genus **SASIA** Hodgson.

**Sasia abnormis** (Temm.). Malaysian Rufous Piculet.

**Sasia abnormis abnormis** (Temm.).

*Picumnus abnormis* Temminck, Pl. Col. 371, fig. 3, 1825: Java.

*Sasia everetti* Hargitt, Ibis, 1881, p. 235: Borneo.

*Distr.*—Malay Peninsula.

Sumatra; Billiton.

Borneo.

Java (not the east).

**Sasia abnormis magnirostris** Hart.

*Sasia abnormis magnirostris* Hartert, Nov. Zool. viii, 1901, p. 51:  
Nias Island, West Sumatra.

*Distr.*—Nias Island.

**Sasia ochracea** Hodgs. Indian Rufous Piculet.

[**Sasia ochracea ochracea** (Hodgs.).

*Sasia ochracea* Hodgson, Journ. Asiat. Soc. Bengal, v, 1836, p. 778:  
Nepal.

*Distr.*—Extra-limital.]

**Sasia ochracea reichenowi** Hesse.

*Sasia ochracea reichenowi* Hesse, Orn. Monatsber. xix, 1911, p.  
181: Burma.

*Distr.*—Peninsular Siam.

## Family EURYLAIMIDÆ.

Genus **CALYPTOMENA** Raffles.**Calyptomena viridis** Raffl. Green Broadbill.**Calyptomena viridis viridis** Raffl.*Calyptomena viridis* Raffles, Trans. Linn. Soc. xiii, 1822, p. 295 : Sumatra.*Calyptomena Rafflesia* Swains., Anim. Menag. 1838, p. 296 (new name for *C. viridis*).*Calyptomena caudacuta* Swains., Class. Birds, ii, 1837, p. 252 (nom. nud); Anim. Menag. 1838, p. 296 : India, error = Singapore.*Distr.*—Malay States.

Sumatra; Lingga Archipelago; Nias Island, West Sumatra. Borneo; North Natuna Islands.

**Calyptomena viridis continentis** Rob. and Kloss.*Calyptomena viridis continentis* Robinson and Kloss, Journ. Fed. Mal. States Mus. xi, 1923, p. 54 : Chumporn, Peninsular Siam.*Distr.*—Peninsular Siam.**Calyptomena viridis siberu** Chas. and Kloss.*Calyptomena viridis siberu* Chasen and Kloss, Ibis, 1926, p. 285 : Siberut Island, Mentawi Islands, West Sumatra.*Distr.*—Mentawi Islands (Siberut and Pagi), West Sumatra.**Calyptomena hosii** Sharpe. Hose's Broadbill.*Calyptomena Hosii* Sharpe, Ann. Mag. Nat. Hist. (6) ix, 1892, p. 249 : Mt. Dulit, North-west Borneo.*Distr.*—Borneo.**Calyptomena whiteheadi** Sharpe. Whitehead's Broadbill.*Calyptomena whiteheadi* Sharpe, Proc. Zool. Soc. 1887, p. 558 : Mt. Kinabalu, North Borneo.*Distr.*—Borneo.Genus **PSARISOMUS**<sup>2</sup> Swainson.**Psarisomus dalhousiæ** (Jameson). Long-tailed Broadbill.[**Psarisomus dalhousiæ dalhousiæ** (Jameson).]*Eurylaimus dalhousiæ* Jameson, Edinb. New Phil. Journ. xviii, 1835, p. 389 : North India.*Distr.*—Extra-limital.]<sup>1</sup> We cannot separate the Bornean Bird (*cf.* Robinson, 1927).<sup>2</sup> *Cf.* Chas. and Kl., Journ. Nat. Hist. Soc. Siam (Nat. Hist. Suppl.) viii, 1932, p. 236.



EURLAIMIDÆ.

**Psarisomus dalhousiæ psittacinus** (S. Müll.).

*Eurlaimus psittacinus* Sal. Müller, Tijds. Nat. Ges. Phys. 1835,  
p. 349, pl. 5, fig. 6: West Sumatra.

*Distr.*—Malay States.<sup>1</sup>  
Sumatra.

**Psarisomus dalhousiæ borneensis** Hart.

*Psarisomus dalhousiæ borneensis* Hartert, Gen. Av. pt. 1, 1905, p.  
7: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

Genus **SERILOPHUS** Swainson.

**Serilophus lunatus** (Gould).

Silver-breasted Broadbill.

**Serilophus lunatus lunatus** (Gould).

*Eurlaimus lunatus* Gould, Proc. Zool. Soc. for 1833, 1834, p. 133:  
Rangoon.

*Distr.*—Peninsular Siam (north).

**Serilophus lunatus stolidus** Rob. and Kloss.

*Serilophus lunatus stolidus* Robinson and Kloss, Bull. Brit. Orn.  
Cl., xl, 1919, p. 16: Khao Nawng, Bandon, Peninsular Siam.

*Distr.*—Peninsular Siam (central).

**Serilophus lunatus rothschildi** (Hart. and Butlr.).

*Serilophus rothschildi* Hartert and Butler, Bull. Brit. Orn. Cl. vii,  
1898, p. 50: Mt. Ijau, Perak, Malay States.

*Distr.*—Malay States.  
Sumatra (north).

**Serilophus lunatus intensus** Rob. and Kloss.

*Serilophus lunatus intensus* Robinson and Kloss, Journ. Fed. Mal.  
States Mus. viii, pt. 2, 1918, p. 150: Mt. Korinchi, West  
Sumatra.

*Distr.*—Sumatra (excluding north).

Genus **EURLAIMUS** Horsfield

**Eurlaimus javanicus** Horsf.

Banded Broadbill.

**Eurlaimus javanicus javanicus** Horsf.

*Eurlaimus Javanicus* Horsfield, Trans. Linn. Soc. xiii, 1821, p.  
170: Java.

*Eurlaimus horsfieldii* Temm., Pls. Col. 130, 131, 1823: Java.

*Distr.*—Java.<sup>2</sup>

<sup>1</sup> Birds from the mountains of the Malay States are not quite the same as typical *psittacinus* and in some respects are approaching *assimilis* Hume (Burma): the races of *P. dalhousiæ* are all rather thin.

<sup>2</sup> The Lampong form is not the typical race as has been suggested.

**Eurylaimus javanicus harterti** van Oort.

*Eurylaimus javanicus harterti* van Oort, Notes Leyd. Mus. xxxi, 1909, p. 209: Deli, North-east Sumatra.

*Distr.*—Sumatra; Rhio Archipelago.

**Eurylaimus javanicus pallidus** Chas.

*Eurylaimus javanicus pallidus* Chasen, Bull. Raffl. Mus. 10, 1935, p. 43: Kao Nawng, Peninsular Siam.

*Distr.*—Malay Peninsula.

**Eurylaimus javanicus billitonis** Kloss.

*Eurylaimus javanicus billitonis* Kloss, Treubia, xiii, 1931, p. 295: Billiton Island.

*Distr.*—Billiton Island.

**Eurylaimus javanicus brookei** Rob. and Kloss.

*Eurylaimus javanicus brookei* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 15: Saribas district, South-west Sarawak.

*Distr.*—Borneo; North Natuna Islands.<sup>1</sup>

**Eurylaimus ochromalus** Raffl.

Black-and-Yellow Broadbill.

**Eurylaimus ochromalus ochromalus** Raffl.

*Eurylaimus ochromalus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 297: Singapore.

*Eurylaimus cycullatus* Temm., Pl. Col. 261, 1824, Sumatra.

*Eurylaemus rafflesii* Less., Compl. Buff. viii, p. 463, 1837: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Billiton  
North Natuna Islands.

**Eurylaimus ochromalus kalamantan** Rob. and Kloss.

*Eurylaimus ochromalus kalamantan* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 15: Saribas district, South-west Sarawak.

*Distr.*—Borneo.

**\*Eurylaimus ochromalus mecistus** Oberh.

*Eurylaimus ochromalus mecistus* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 8: Tuanku Island, Banjak Islands, West Sumatra.

*Distr.*—Banjak Islands, West Sumatra.

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<sup>1</sup> The Natuna form has not been examined and is placed here purely on geographic grounds.

Genus **CORYDON** Lesson.

**Corydon sumatranus** (Raffl.). Dusky Broadbill.

**Corydon sumatranus sumatranus** (Raffl.).

*Coracias Sumatranus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 303 : Sumatra.

*Eurlaimus corydon* Temm., Pl. Col. 297, 1824 : Sumatra.

*Corydon temminckii* Less., Man. d'Orn. i, 1828, p. 177 : Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.

**Corydon sumatranus brunnescens** Hart.

*Corydon sumatranus brunnescens* Hartert, Bull. Brit. Orn. Cl. xxxvii, 1916, p. 4 : Baram, Sarawak.

*Distr.*—Borneo; North Natuna Islands.

Genus **CYMBIRHYNCHUS** Vigors.

**Cymbirhynchus macrorhynchos** (Gmel.). Black-and-Red Broadbill.

**Cymbirhynchus macrorhynchos macrorhynchos** (Gmel.).

*Todus macrorhynchos* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 446 : Borneo.

*Todus nasutus* Lath., Index Orn. i, 1790, p. 268 : nom. nov.

*Erolla nasica* Less., Traité d'Orn. 1830, p. 260 : nom. nov.

*Eurlaimus lemniscatus* Raffl., Trans. Linn. Soc. xiii, 1822, p. 296 : Bencoolen, West Sumatra.

*Distr.*—Sumatra (west).  
Borneo.

**Cymbirhynchus macrorhynchos malaccensis** Salvad.

*Cymborhynchus malaccensis* Salvadori, Att. R. Accad. Sci. Torino, ix, 1874, p. 425 : Malacca.

*Distr.*—Malay Peninsula.  
Sumatra (east); Banka; Billiton.

Family **PITTIDÆ**.

Genus **PITTA** Vieillot.

**Pitta cærulea** (Raffl.). Giant Pitta.

**Pitta cærulea cærulea** (Raffl.).

*Myiothera cærulea* Raffles, Trans. Linn. Soc. xiii, 1822, p. 301 : Sumatra.

*Pitta gigas* Temm., Pl. Col. 217, 1823 : Sumatra.

*Brachyurus davisoni* Hume, Stray Feathers, iii, 1875, p. 321 : hills dividing Siam and Tenasserim.

*Distr.*—Malay Peninsula.  
Sumatra.

**Pitta cœrulea hosei** Baker.

*Pitta cœrulea hosei* Baker, Bull. Brit. Orn. Cl. xxxix, 1918, p. 20 :  
Mt. Dulit, Sarawak.

*Distr.*—Borneo.

**Pitta nipalensis** (Hodgs.).

[*Pitta nipalensis nipalensis* (Hodgs.).

*Paludicola Nipalensis* Hodgson, Journ. Asiat. Soc. Bengal, vi, 1837,  
p. 103 : Nepal.

*Distr.*—Extra-limital.]

**Pitta nipalensis schneideri** Hart.

Schneider's Pitta.

*Pitta schneideri* Hartert, Bull. Brit. Orn. Cl. xxv, 1909, p. 9 : Battak  
Mts., North Sumatra.

*Distr.*—Sumatra.

**Pitta brachyura** (Linn.).

Lesser Blue-winged Pitta.

**Pitta brachyura brachyura** (Linn.).

*Corvus brachyurus* Linn., Syst. Nat. 12th ed. i, 1766, p. 158 :  
Ceylon.

**Pitta brachyura cyanoptera** Temm.<sup>1</sup>

*Pitta cyanoptera* Temminck, Pl. Col. 218, 1823 : Sumatra.

*Pitta Malaccensis* Blyth, (nec Müll. and Schleg.), Journ. Asiat. Soc.  
Beng. xii, 1843, p. 960 : Malacca.

*Pitta moluccensis lepta* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 8 :  
Nias Island, West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; West Sumatra islands of Banjak  
group, Nias and Mentawi group.

Borneo; North Natuna Islands.

Java.

**Pitta megarhyncha** Schleg<sup>2</sup>.

Larger Blue-winged Pitta.

*Pitta megarhyncha* Schlegel, Vög. Ned. Ind. 1863, *Pitta*, p. 11, pl.  
4, fig. 2 : Banka.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka.

<sup>1</sup> We consider that *Turdus moluccensis* Müll. is only doubtfully applicable to this bird. Small birds resembling *lepta* occur in other parts of Malaysia.

<sup>2</sup> Perhaps a southern breeding race of *P. brachyura*.

**Pitta nympha** Temm. and Schleg. Chinese Blue-winged Pitta.

\***Pitta nympha nympha** Temm. and Schleg.

*Pitta nympha* Temminck and Schlegel, Fauna Japon., Aves, 1850, p. 135, Suppl. Tab. A : Korea.

*Pitta berta* Salvad., Att. Sci. Tor. iii, 1868, p. 527 : Borneo.

*Distr.*—Borneo.

**Pitta sordida** P. L. S. Müll. Green-breasted Pitta.

[**Pitta sordida sordida** (P. L. S. Müll.).

*Turdus sordidus* P. L. S. Müller, Natursyst. Suppl. 1776, p. 143 : Philippine Islands.

*Distr.*—Extra-limital.]

**Pitta sordida mulleri** Bp.

*Pitta mulleri* Bonaparte, Consp. Gen. Avium, i, 1850, p. 256 : Celebes, error=South-east Borneo.

*Pitta sordida sumatrana* Kloss, Treubia, xiii, 1931, p. 332 : Palembang, Sumatra.

*Pitta sordida javana* Kloss, Treubia, xii, 1931, p. 332 : Bandjar, Java.

*Distr.*—Sumatra.

Borneo.

Java (west).

**Pitta sordida cucullata** Hartl.

*Pitta cucullata* Hartlaub, Rev. Zool. 1843, p. 65 : Malacca.

*Pitta malaccensis* Müll. and Schl., Verh. Nat. Gesch., Zool. Pitta, 1840, p. 19 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Nias Island, West Sumatra.

Java.

**Pitta sordida bangkana** Schleg.

*Pitta bangkana* Schlegel, Vög. Ned. Ind., Pitta 1863, p. 8, pl. 2, fig. 5 : Banka Island.

*Distr.*—Banka; Billiton.

**Pitta venusta** Sal. Müll. Black-and-Scarlet Pitta.

**Pitta venusta venusta** S. Müll.

*Pitta venusta* Sal. Müller, Tijd. Nat. Ges. Phys. ii, 1835, p. 348, pl. 5, fig. 4 : West Sumatra.

*Distr.*—Sumatra.

**Pitta venusta ussheri** Sharpe.

*Pitta ussheri* Sharpe, Proc. Zool. Soc. 1877, p. 94 : Lawas River, North Borneo.

*Distr.*—Borneo.

**Pitta granatina** Temm.<sup>1</sup> Red-headed Pitta.

**Pitta granatina granatina** Temm.

*Pitta granatina* Temminck, Pl. Col. 506, 1830: Borneo.

*Pitta granatina borneensis* Ell., Auk, ix, 1892, p. 218: Borneo.

Distr.—Borneo.

**Pitta granatina coccinea** Eyton.

*Pitta coccinea* Eyton, Proc. Zool. Soc. 1839, p. 104: Malacca.

*Pitta granatina vanheurni* Kloss, Journ. Fed. Mal. States Mus. x, 1921,  
p. 212: Langkat, North-east Sumatra.

Distr.—Malay Peninsula.  
Sumatra.

**Pitta arcuata** Gould.<sup>2</sup> Blue-banded Pitta.

*Pitta* (*Phœnicocichla*) *arquata* Gould, Ann. Mag. Nat. Hist. (4),  
vii, 1871, p. 340: Borneo.

Distr.—Borneo.

**Pitta guajana**<sup>3</sup> (P. L. S. Müll.). Banded Pitta.

**Pitta guajana guajana** (P. L. S. Müll.).

*Turdus guajanus* P. L. S. Müller, Natursyst. Suppl. 1776, p. 145:  
Banjoewangi, East Java, (*restr. Kloss, 1926*).

*Turdus cyanurus* Bodd., Tabl. Pl. Enlum. 1783, p. 21: Java.

Distr.—Java (East); Bali.

**Pitta guajana affinis** (Horsf.).

*Myiothera affinis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 154:  
Bantam Province, West Java (*restr. Kloss, 1926*).

Distr.—Java (West).

**Pitta guajana schwaneri** Bp.

*Pitta schwaneri* Bonaparte, Consp. Gen. Avium 1, 1850, p. 256:  
Borneo.

Distr.—Borneo.

**Pitta guajana irena** Temm.

*Pitta irena* Temminck, Pl. Col. text opposite pl. 591, 1836: Sumatra.

*Pitta boschii* Müll. and Schleg., Verh. Nat. Gesch., Zool., *Pitta*, 1840,  
p. 5, pl. 1: Sumatra.

Distr.—Malay Peninsula.  
Sumatra.

<sup>1</sup> All the Malaysian black-and-scarlet pittas may be forms of *granatina* but we need to know more of the ranges of the various forms in Sumatra and Borneo before linking them. See Bull. Raffl. Mus. 4, 1930, p. 45.

<sup>2</sup> This species seems to occupy an intermediate position between the black-and-scarlet pittas of Malaysia and the non-Malaysian forms of the *celebensis-mackloti* association.

<sup>3</sup> Cf. Kloss, Journ. Mal. Br. Roy. Asiat. Soc. iv, 1926, p. 161.

**Pitta gurneyi** Hume. Gurney's Pitta.

*Pitta Gurneyi* Hume, Stray Feathers, iii, 1875, p. 296, pl. 3 : South Tenasserim.

*Distr.*—Peninsular Siam.

**Pitta baudi** Müll. & Schleg.<sup>1</sup> Blue-headed Pitta.

*Pitta baudi* Müller and Schlegel, Verh. Nat. Gesch., Zool., *Pitta*, 1840, pp. 10, 15, pl. 2 : Borneo.

*Distr.*—Borneo.

## Family HIRUNDINIDÆ.

Genus **DELICHON** Horsfield and Moore.

**Delichon urbica** (Linn.). House-Martin.

[*Delichon urbica urbica* (Linn.).

*Hirundo urbica* Linn., Syst. Nat. 10th. ed. 1758, p. 192 : Sweden, Europe.

*Distr.*—Extra-limital.]

**Delichon urbica dasypus** (Bp.).

*Chelidon dasypus* Bonaparte, Consp. Gen. Avium, i, 1850, p. 343 : Borneo.

*Distr.*—Malay States.

?Rhio Arch. (*vis.*).

Borneo.

Java.

Genus **HIRUNDO** Linn.

**Hirundo rustica** Linn.<sup>2</sup> Common Swallow.

[*Hirundo rustica rustica* Linn.<sup>3</sup>

*Hirundo rustica* Linn., Syst. Nat. 10th. 1758, p. 191 : Sweden.

*Distr.*—Extra-limital.]

**Hirundo rustica gutturalis** Scop.

*Hirundo gutturalis* Scopoli, Del. Flor. et Faun. Insub. ii, 1786, p. 96 : Philippine Islands.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; West Sumatran Islands of Simalur and Siberut.

Borneo; Bornean Islands; North Natuna Islands.

Java; Bali; Christmas and Cocos-Keeling Islands.

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<sup>1</sup> The nearest relative of this strangely isolated form seems to be *P. gurneyi* of Burma and Siam!

<sup>2</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 98, 1917, p. 28.

<sup>3</sup> There seems to be no satisfactory record for the occurrence of the typical form of the swallow in Malaysia.

**Hirundo tahitica** Gmel.<sup>1</sup> Coast-Swallow.

[**Hirundo tahitica tahitica** Gm.

*Hirundo tahitica* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 1016: Tahiti.

Distr.—Extra-limital.]

**Hirundo tahitica javanica** Sparrm.

*Hirundo javanica* Sparrman, Mus. Carls. iv, 1789, pl. 100: Java.

Distr.—Sumatra (Lampongs).

Java; Kangean Islands.

**Hirundo tahitica abbotti** (Oberh.).

*Hypurolepis javanica abbotti* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 32: Manguan Island, Anamba Islands.

*Hypurolepis javanica mesata* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 51: Seraia Island, Natuna Islands.

Distr.—Malay Peninsula; Anamba Islands; Tambelan Islands.

Sumatra (not Lampongs); Rhio Archipelago; Billiton; Mendanau.

Borneo; North Bornean Islands; Natuna Islands; Karimata Islands.

\***Hirundo tahitica hypolampra** (Oberh.).<sup>2</sup>

*Hypurolepis javanica hypolampra* Oberholser, Journ. Wash. Acad. Sciences, xvi, 1926, p. 515: Nias Island, West Sumatra.

Distr.—Nias Island, West Sumatra.

**Hirundo daurica** Linn.

[**Hirundo daurica daurica** Linn.

*Hirundo daurica* Linn., Mantissa Plant., ii, 1771, p. 528: Siberia.

Distr.—Extra-limital.]

\***Hirundo daurica striolata** Temm. & Schleg. Striated Swallow.

*Hirundo striolata* Temminck and Schlegel, Fauna Japon., Aves, 1847, p. 33: Java.

Distr.—Borneo.

Java.

**Hirundo daurica badia** (Cass.). Cliff-Swallow.

*Cecropis badia* Cassin, Proc. Philad. Acad. Sci. 1853, p. 371: Malacca.

*Cecropis archetes* Hume, Stray Feathers, v, 1877, p. 266: Malacca.

Distr.—Malay Peninsula.

<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 51.

<sup>2</sup> We have never seen topotypes of this race but do not consider that birds from Sumatra which island was included in the range of *hypolampra* are separable from *abbotti*.



Genus **RIPARIA** Forster.

**Riparia riparia** (Linn.). Sand-Martin.

[**Riparia riparia riparia** (Linn.).

*Hirundo riparia* Linn., Syst. Nat. 10th. ed. 1758, p. 192 : Sweden.

*Distr.*—Extra-limital.]

\***Riparia riparia ijimæ** (Lönnb.).

*Clivicola riparia ijimæ* Lönnberg, Journ. Coll. Sci. Tokyo, xxiii, art 14, 1908, p. 38 : Sachalin.

*Distr.*—Borneo.

Family **MUSCICAPIDÆ**.<sup>1</sup>

Genus **HEMICHELIDON** Hodgson.

**Hemichelidon sibirica** (Gmel.).<sup>2</sup> Sooty Flycatcher.

**Hemichelidon sibirica sibirica** (Gmel.).<sup>2</sup>

*Muscicapa sibirica* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 936 : Lake Baikal.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra.

Borneo; Natuna Islands.

Java.

**Hemichelidon sibirica fuliginosa** Hodgs.

*Hemichelidon fuliginosa* Hodgson, Proc. Zool. Soc. 1845, p. 32 : Nepal.

*Distr.*—Peninsular Siam.

<sup>1</sup> It is certain that more genera are recognized here than is necessary, but although several authors have made bold attempts to lump the palæarctic genera, the tropical groups have not been included in their reviews. We have, therefore, chosen to be conservative rather than inconsistent but it may be noted that of the genera recognized here Hartert has already merged *Hemichelidon*, *Alseonax*, *Siphia*, *Cyornis*, *Poliomyias*, *Zanthopygia*, and *Cyanoptila*. "*Muscitrea*" is here placed in the *Laniidæ* for we do not see how it can be separated from *Pachycephala*.

<sup>2</sup> We have seen several supposed examples of *H. griseisticta* Swinh., from Borneo but they are all really *H. sibirica*. Some Malaysian birds may be *H. s. incerta* La Touche (North China) which we have not seen.

<sup>3</sup> Cf. Baker, Bull. B. O. C. xliii, 1923, p. 155.

**Hemichelidon ferruginea** Hodgs. Ferruginous Flycatcher.

*Hemichelidon ferruginea* Hodgson, Proc. Zool. Soc. 1845, p. 32 : Nepal.

*Hemichelidon cinereiceps* Sharpe, Ibis, 1887, p. 441 : Mt. Kinabalu, Borneo.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

Genus **ALSEONAX** Cabanis.

**Alseonax latirostris** (Raffl.). Brown Flycatcher.

**Alseonax latirostris latirostris** (Raffl.).

*Muscicapa latirostris* Raffles, Trans. Linn. Soc. xiii, 1822, p. 312 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Siberut Island, West Sumatra.

Borneo; Natuna Islands.

Java.

Genus **SIPHIA** Hodgson.<sup>1</sup>

**Siphia parva** (Bechst.). Red-breasted Flycatcher.

[**Siphia parva parva** Bechst.

*Muscicapa parva* Bechstein, Getreue Abbild. Heft 2, 1793, p. 26 : Holland.

*Distr.*—Extra-limital.]

**Siphia parva albicilla** (Pall.).

*Muscicapa Albicilla* Pallas, Zoogr. Rosso-Asiat. i, 1811, p. 462 : Dauria.

*Distr.*—Peninsular Siam.

Genus **CYORNIS** Blyth.<sup>2</sup>

**Cyornis vivida** Swinh. Blue-and-Orange Flycatcher.

[**Cyornis vivida vivida** Swinh.

*Cyornis vivida* Swinhoe, Ibis, 1864, p. 363 : Formosa.

*Distr.*—Extra-limital.]

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<sup>1</sup> *Siphia obscura* Sharpe, Proc. Zool. Soc. 1881, p. 789 (Borneo), is an American bird.

<sup>2</sup> Revisions : Stres., Orn. Monatsber. xxxiii, 1925, p. 45; Rob. and Kinn., Nov. Zool. xxxiv, 1928, p. 231; Chas. and Kl., Bull. Raff. Mus. 2, 1929, p. 23.

**Cyornis vivida sumatrana** (Salvad.).

*Niltava sumatrana* Salvadori, Ann. Mus. Civ. Gen. (1), xiv, 1879,  
p. 201 : Mt. Singalan, West Sumatra.

*Cyornis peninsularis* Robinson, Journ. Fed. Mal. States Mus., ii, 1909,  
p. 163 : Telom, Perak, Malay Peninsula.

*Distr.*—Malay States.  
Sumatra.

**Cyornis concreta** (S. Müll.).

**Cyornis concreta concreta** (S. Müll.). White-tailed Blue Flycatcher.

*Muscicapa concreta* Sal. Müller, Tijds. Nat. Ges. Phys. ii, 1835, p.  
351 : West Sumatra.

*Distr.*—Malay States.  
Sumatra.

**Cyornis concreta everetti** (Sharpe). Everett's Blue Flycatcher.

*Siphia everetti* Sharpe, Ibis, 1890, p. 360 : Mt. Penrissen, West  
Sarawak, Borneo.

*Distr.*—Borneo.

**\*Cyornis ruecki** Gust.

Rueck's Blue Flycatcher.

*Cyornis ruecki* Oustalet, Bull. Soc. Philomath. (7) v, 1881, p. 78 :  
Malacca.

*Cyornis vanheysti* Robinson and Kloss, Journ. Straits Branch Roy. Asiat.  
Soc. 80, 1919, p. 104 : North-east Sumatra.

*Distr.*—Malay States.  
Sumatra (north-east).

**Cyornis unicolor** Blyth.

Pale Blue Flycatcher.

[**Cyornis unicolor unicolor** Blyth.

*Cyornis unicolor* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p.  
1007 : Darjeeling.

*Distr.*—Extra-limital.]

**Cyornis unicolor infusata** Hart.

*Cyornis unicolor infusata* Hartert, Nov. Zool. ix, 1902, p. 550 :  
Java.

*Cyornis unicolor harterti* Rob. and Kinn., Nov. Zool. xxxiv, 1928, p. 256 :  
Java.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.  
Java.

**Cyornis rubeculoides** (Vigs.). Blue-throated Flycatcher.

[**Cyornis rubeculoides rubeculoides** (Vigs.).

*Phœnicura rubeculoides* Vigors, Proc. Zool. Soc. 1831, p. 35:  
N.W. Himalayas.

*Distr.*—Extra-limital.]

**Cyornis rubeculoides dialilaema** Salvad.

*Cyornis dialilaema* Salvadori, Ann. Mus. Civ. Gen. (2a), vii, 1889,  
p. 387, North Tenasserim.

*Cyornis rubeculoides chersonites* Oberh., Proc. Biol. Soc. Wash. xxxiii,  
1920, p. 85: Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Cyornis rubeculoides glaucicomans** Thayer & Bangs.

*Cyornis tickelliae glaucicomans* Thayer and Bangs, Bull. Mus.  
Comp. Zool. lii, 1909, p. 141: Hupeh, Central China.

*Cyornis anak* Robinson and Kloss, Journ. Fed. Mal. States Mus., x,  
1922, p. 261: Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Cyornis turcosa** (Brüggm.). Malaysian Blue Flycatcher.

**Cyornis turcosa turcosa** (Brügg.).

*Muscicapa turcosa* Brüggeman, Abhandl. Nat. Ver. Bremen, v,  
1877, p. 457: Muara Tewah, South-east Borneo.

*Muscicapa elegans* Temm., Pl. Col. 596, fig. 2, 1836: Sumatra (nec  
*M. elegans* Less.).

*Cyornis elegans antelia* Oberh., Proc. Biol. Soc. Wash. xxxiii, 1920,  
p. 87: Long Iram, North-east Borneo.

*Distr.*—Borneo (south-east).

**Cyornis turcosa rupertensis** Oberh.

*Cyornis elegans rupertensis* Oberholser, Proc. Biol. Soc. Wash.  
xxxiii, 1920, p. 87, Rupert Strait, South-east Sumatra.

*Distr.*—Malay States.

Sumatra.

Borneo (west).

**Cyornis rufigastra** (Raffl.). Common Blue Flycatcher.

**Cyornis rufigastra rufigastra** (Raffl.).

*Muscicapa rufigastra* Raffles, Trans. Linn. Soc. xiii, 1822, p. 312:  
Sumatra.

*Siphia beccariana* Salvad., Atti. R. Acad. Torino, iii, 1868, p. 533:  
Sarawak.

*Cyornis frenatus* Hume, Stray Feathers, ix, 1880, p. 114: Jeram, Selangor.

*Cyornis hosei* Finsch, Notes Leyd. Mus., xxiii, 1901, p. 48: Borneo.

*Cyornis erythrogaster* Sharpe, Handlist of Birds, iii, 1901, p. 216: nom. emend. for *rufigastra*.

*Cyornis banyumas calocephala* Oberh., Proc. Biol. Soc. Wash. xxxiii, 1920, p. 86: Banka.

*Distr.*—Malay States.

Sumatra; Rhio Archipelago; Lingga Archipelago; Banka.

Borneo; North Bornean Islands; Maratua Islands.

**\**Cyornis rufigastra rhizophorae* Stres.**

*Cyornis rhizophorae* Stresemann, Orn. Monatsb. xxxiii, 1925, p. 50: Coast of North-west Java.

*Distr.*—Java (west); Sebesi Island, Sunda Strait.<sup>1</sup>

***Cyornis rufigastra sumatrensis* (Sharpe).**

*Siphia sumatrensis* Sharpe, Cat. Birds, Brit. Mus. iv, 1879, p. 451: Sumatra.

*Distr.*—Malay Peninsula (not south).

Sumatra.

***Cyornis rufigastra lampra* Oberh.**

*Cyornis banyumas lampra* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 35: Pulau Jimaja, Anamba Islands.

*Distr.*—Anamba Islands.

***Cyornis rufigastra longipennis* Chas. and Kloss.**

*Cyornis rufigastra longipennis* Chasen and Kloss, Treubia, xii, 1930, p. 271: Karimon-Java Island, Java Sea.

*Distr.*—Karimon-Java Islands.

***Cyornis rufigastra karimatensis* Oberh.**

*Cyornis banyumas karimatensis* Oberholser, Proc. U.S. Nat. Mus. lxiv, 1924, Art. 22, p. 3: Karimata Island.

*Distr.*—Karimata Islands, West Borneo.

***Cyornis banyumas* (Horsf.).**

Hill Blue Flycatcher.

***Cyornis banyumas banyumas* (Horsf.).**

*Muscicapa Banyumas* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 146: Province of Banyumas, Java.

*Cyornis banyumas limitans* Rob., Bull. B. O. Cl. xlviii, 1927, p. 44: Tamansari, East Java.

*Distr.*—Java (east and central).

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<sup>1</sup> We have never seen topotypical *rhizophora*, but the Sebesi birds are rather lighter blue above than most examples of *rufigastra* and we therefore refer them to the Javan form.

**Cyornis banyumas cantatrix** (Temm.).

*Muscicapa cantatrix* Temminck, Pl. Col. 226, 1823 : Bantam, West Java.

*Distr.*—Java (west).

**Cyornis banyumas cœrulifrons** Baker.

*Cyornis magnirostris cœrulifrons* Baker, Bull. Brit. Orn. Cl. xxxix, 1918, p. 8 : Peninsular Siam.

*Distr.*—Malay Peninsula.

**Cyornis banyumas magnirostris** Blyth.

*Cyornis magnirostris* Blyth, Journ. Asiat. Soc. Bengal, xviii, 1849, p. 814 : Darjeeling.

*Distr.*—Peninsular Siam.

**Cyornis banyumas montana** Rob. and Kinn.

*Cyornis whitei montana* Robinson and Kinnear, Nov. Zool. xxxiv, 1928, p. 244 : Mt. Liang Kubang, Central Borneo.

*Distr.*—Borneo.

**Cyornis cœrulata** (Bp.).

Large-billed Blue Flycatcher.

**Cyornis cœrulata cœrulata** (Bp.).

*Schwaneria cœrulata* Bonaparte, Rev. Mag. Zool. (2) ix, 1857, p. 54 : Sambarajan, South Borneo.

*Distr.*—Borneo (south, east and north).

**Cyornis cœrulata rufifrons** Wall.

*Cyornis rufifrons* Wallace, Proc. Zool. Soc. 1865, p. 476 : Sarawak.

*Cyornis nigrigularis* Everett, Ibis, 1891, p. 45 : Mt. Penrissen, Sarawak.

*Distr.*—Borneo (west, and Sarawak).

**Cyornis cœrulata albiventer** Junge.

*Cyornis caerulata albiventer* Junge, Ardea, xxii, 1933, p. 105 : Deli, North Sumatra.

*Distr.*—Sumatra.

**Cyornis superba** Stres.

Bornean Blue Flycatcher.

*Cyornis superba* Stresemann, Orn. Monatsb. xxxiii, 1925, p. 52 : Mt. Penrissen, Sarawak.

*Distr.*—Borneo.

MUSCICAPIDÆ.

Genus **POLIOMYIAS** Sharpe

**Poliomyias mugimaki** (Temm.)<sup>1</sup> Black-and-Orange Flycatcher.

*Muscicapa Mugimaki* Temminck, Pl. Col. 577, fig. 2, 1835: Japan.

*Siphia erythaca* Blyth, Journ. Asiat. Soc. Beng. xvi, 1847, p. 126: Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

Genus **MUSCICAPELLA** Bianchi.

**Muscicapella hodgsoni** (Horsf. and Moore). Pygmy Blue Flycatcher.

[**Muscicapella hodgsoni hodgsoni** (Horsf. and Moore).

*Nemura hodgsoni* Horsfield and Moore, Cat. Birds. Mus. East Ind. Coy. i, 1854, p. 300: Nepal.

*Distr.*—Extra-limital.]

**Muscicapella hodgsoni sondaica** (Rob. and Kloss).

*Nitidula hodgsoni sondaica* Robinson and Kloss, Journ. Fed. Malay States Mus., xi, 1923, p. 54: Korinchi Peak, West Sumatra.

*Distr.*—Malay States.

Sumatra.

Borneo.

Genus **MUSCICAPULA** Blyth.

**Muscicapula melanoleuca** Blyth. Little Pied Flycatcher.

[**Muscicapula melanoleuca melanoleuca** Blyth.

*Muscicapula melanoleuca* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p. 490: Nepal.

*Distr.*—Extra-limital.]

**Muscicapula melanoleuca westermanni** Sharpe.

*Muscicapula westermanni* Sharpe, Proc. Zool. Soc. 1888, p. 270: Gunong Ulu, Perak, Malay Peninsula.

*Distr.*—Malay Peninsula.

Sumatra (not south).

Borneo.

**Muscicapula melanoleuca hasselti** (Finsch).<sup>2</sup>

*Muscicapa Hasselti* Finsch, Notes Leyd. Mus. xx, 1898, p. 94: Java.

*Distr.*—Sumatra (south only).

Java; Bali.

<sup>1</sup> It is possible that *Muscicapa rufigula* first mentioned by Müll., Tijds. Nat. Gesch. Phys. ii, 1835, p. 351 (nom. nud. here) and probably from Sumatra applies to this bird. See Sharpe, Notes Leyd. Mus. i, 1879, p. 27.

<sup>2</sup> This name has been ascribed to Robinson and Kloss, but Finsch's remarks seem to constitute a valid description.

Genus **DENDROBIASTES** Sharpe.<sup>1</sup>**Dendrobiastes hyperythra** (Blyth).<sup>2</sup> Rufous-breasted Flycatcher.**[Dendrobiastes hyperythra hyperythra** (Blyth).*Muscicapa hyperythra* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 885: Nepal.*Distr.*—Extra-limital.]**Dendrobiastes hyperythra malayana** (Grant).*Muscicapula malayana* O.-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 10: Mt. Tahan, Malay Peninsula.*Dendrobiastes hyperythrus sumatranus* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 52: Mt. Korinchi, West Sumatra.*Distr.*—Malay States.  
Sumatra.  
Borneo.**Dendrobiastes hyperythra mjobergi** Hart.*Dendrobiastes hyperythrus mjobergi* Hartert, Sarawak Mus. Journ. iii, 1925, p. 1: Mt. Poi, West Sarawak.*Distr.*—Borneo (west).<sup>3</sup>**Dendrobiastes hyperythra vulcani** Rob.*Dendrobiastes hyperythra vulcani* Robinson, Journ. Fed. Mal. States Mus., vii, 1918, p. 235: Tjibodas, West Java.*Distr.*—Java; Bali.Genus **ANTHIPES** Blyth.**Anthipes solitaris** (S. Müll.). White-gorgeted Flycatcher.**Anthipes solitaris solitaris** (S. Müll.).*Muscicapa solitaris* Sal. Müller, Tijds. Nat. Gesch. Phys. 1835, p. 351: Padang, West Sumatra.*Distr.*—Sumatra.<sup>4</sup><sup>1</sup> Revisions: Stres., Nov. Zool. xix, 1912, p. 330; Snouck. v. Schaub., Org. Cl. Ned. Vog. ii, 1929, p. 52.<sup>2</sup> We have no material to decide whether *Muscicapa superciliaris* Jerdon, 1840, and *Dimorpha superciliaris* Blyth, 1842, are congeneric and have accordingly used Blyth's substitute name *Muscicapa hyperythra* published later in 1842. *Siphia hyperythra* Cabanis, 1866, must also be kept in mind in the case of any extensive lumping of Oriental genera.<sup>3</sup> Kinnear (Ibis, 1929, p. 134) has suggested that *mjobergi* is a species because it appears to occur side by side with *malayana* on Mt. Kinabalu in North Borneo: we have seen many skins of this species from Kinabalu and all are *malayana* except one male in the British Museum: as this bird bears no field label except a number, which if a record of altitude does not agree with its new label (2,100 m. against 8,000 feet) we feel at liberty to doubt its provenance.<sup>4</sup> The north Sumatran race is perhaps *A. s. malayana*, but we have only examined one not fully adult bird.



***Anthipes solitaris malayana* (Sharpe).**

*Digenea malayana* Sharpe, Proc. Zool. Soc. 1888, p. 247: Larut, Perak.

*Distr.*—Malay States.

***Anthipes solitaris submoniliger* Hume.**

*Anthipes submoniliger* Hume, Str. Feath. v, 1877, p. 105: Mt. Muleyit, Tenasserim.

*Distr.*—Peninsular Siam.

Genus **NILTAVA** Hodgson.

***Niltava grandis* (Blyth).**

Malaysian Niltava.

[*Niltava grandis grandis* (Blyth).

*Chaitaris grandis* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 189: Darjeeling.

*Distr.*—Extra-limital.]

***Niltava grandis decipiens* Salvad.**

*Niltava decipiens* Salvadori, Ann. Mus. Civ. Gen. (2) xii, 1892, p. 49: Sumatra.

*Distr.*—Sumatra.

Malay States.

Genus **OREICOLA** Bonaparte.

***Oreicola dumetoria* (Wall.).**

Short-tailed Flycatcher.

***Oreicola dumetoria dumetoria* (Wall.).**

*Saxicola* (?) *dumetoria* Wallace, Proc. Zool. Soc. 1863, p. 490: Lombok.

*Siphia vordermani* Sharpe, Ibis, 1890, p. 206: Mt. Gede, West Java.

*Distr.*—Java.

***Oreicola dumetoria muelleri* (Blyth).**

*Muscicapa muelleri* Blyth, Ibis, 1870, p. 166: Sumatra.

*Siphia elopurensis* Sharpe, Ibis, 1890, p. 206: Sandakan, North Borneo.

*Distr.*—Malay Peninsula.

Sumatra

Borneo.

Genus **GERYGONE** Gould.**Gerygone fusca** (Gould).<sup>1</sup>

Fly-eater.

[**Gerygone fusca fusca** (Gould).]*Psilopus fuscus* Gould, Synopsis Birds Australia, iv, 1838, pl. 61 :  
Swan River, West Australia.*Distr.*—Extra-limital.]**Gerygone fusca sulphurea** Wall.*Gerygone sulphurea* Wallace, Proc. Zool. Soc. for 1863, 1864, p. 490 : Solor.*Gerygone modiglianii* Salvad., Ann. Mus. Gen. (2) xii, 1891, p. 52 :  
Toba Lake, North-east Sumatra.*Gerygone pectoralis*<sup>2</sup> Davison, Ibis, 1892, p. 99 : Pahang coast, Malay States.*Gerygone salvadorii* Büttik., Notes Leyden Mus., xv, 1893, p. 175 : South Borneo.*Gerygone modiglianii jacobsoni* van Oort, Notes Leyden Mus., xxxi, 1909, p. 207 : islet near Batavia, W. Java.*Gerygone modiglianii muscicapa* Oberh., Smiths, Misc. Coll. lx, No. 7, 1912, p. 11 : Engano Island.*Gerygone sulphurea plesseni* Stres., Ornith. Monatsber. xxxiv, 1926, p. 22 : Bali.*Distr.*—Malay Peninsula.

Sumatra; Engano Island, West Sumatra.

Borneo; Maratua Islands.

Java; Bali; Karimon-Java Islands.

Genus **ZANTHOPYGIA** Blyth.**Zanthopygia narcissina** (Temm.). Black-and-Yellow Flycatcher.\***Zanthopygia narcissina narcissina** (Temm.).*Muscicapa narcissina* Temminck, Pl. Col. 577, fig. 1, 1835 : Japan.*Distr.*—Borneo.**Zanthopygia narcissina zanthopygia** (Hay).*Muscicapa Zanthopygia* Hay, Madras Journal xiii, 1845, p. 162 :  
Malacca.*Muscicapa (Muscicapula) tricolor* Hartl., Rev. Zool. 1845, p. 406 :  
"Malacca?"*Distr.*—Malay Peninsula; Anamba Islands; Sumatra; Java.<sup>1</sup> We have followed Meise (Zool. Nov. xxxv, 1931, p. 371) in our treatment of this species.<sup>2</sup> The type of *pectoralis* is not in Singapore.

Genus **CYANOPTILA** Blyth.**Cyanoptila cyanomelana** (Temm.). Blue-and-White Flycatcher.**\*Cyanoptila cyanomelana cyanomelana** (Temm.).*Muscicapa cyanomelana* Temminck, Pl. Col. 470, 1829: Japan.*Distr.*—Java.<sup>1</sup>**Cyanoptila cyanomelana cumatilis** Thayer and Bangs.*Cyanoptila cumatilis* Thayer and Bangs, Bull. Mus. Comp. Zool. lxii, 1909, p. 141: Hupeh, China.*Distr.*—Malay Peninsula.

Sumatra.

Java; Karimon-Java Islands.

**Cyanoptila cyanomelana intermedia** (Weig.).*Muscicapa cyanomelana intermedia* Weigold, Abh. Ber. Zool. Mus. Dresden, xv, 1922, 3, p. 30: Vladivostok area.*Distr.*—Borneo.Genus **HYPOTHYMIS** Boie.<sup>2</sup>**Hypothymis azurea** (Bodd.). Black-naped Flycatcher.**[Hypothymis azurea azurea** Bodd.*Muscicapa azurea* Boddaert, Tabl. Planch. Enlum., 1783, p. 41: Philippine Islands.*Distr.*—Extra-limital.]**Hypothymis azurea styani** (Hartl.).*Siphia styani* Hartlaub, Abh. Nat. Ver. Bremen, xvi (2), 1898, p. 248: Hainan.*Distr.*—Peninsular Siam.**Hypothymis azurea prophata** Oberh.*Hypothymis azurea prophata* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 597: Karimon Island near Singapore.*Distr.*—Malay States.

Sumatra; Rhio Archipelago; Lingga Archipelago; Banka; Billiton.

Borneo; North Bornean Islands; Maratua Islands.

<sup>1</sup> Messrs. Bartels and Stresemann consider that this race occurs in Java: our black-breasted birds from Borneo answer to the description of *intermedia* and are less blue above than some topotypical males of *cyanomelana*. Kuroda (1933) mentions *C. c. cyanomelana* as occurring in winter in the Malay Peninsula, Sumatra, Borneo, and Java, but this extensive Malaysian range may be based on uncritical records in literature and in our list we have, therefore, only included birds we have examined with a view to subspecific identification with the exception of typical *cyanomelana* which is accepted for Java on published authority.

<sup>2</sup> Revisions: Stres., Nov. Zool. xx, 1913, p. 289; Oberh., Proc. U.S. Nat. Mus. xxxix, 1911, p. 585; Oberh., Bull. U.S. Nat. Mus. 98, 1917, p. 38; Snouck. v. Schaub., Org. Cl. Ned. Vog. ii, 1929, p. 61.

**Hypothymis azurea javana** Chas. and Kloss.

*Hypothymis azurea javana* Chasen and Kloss, Bull. Raffles Mus. 2, 1929, p. 22: Badjoelmati, East Java.

*Distr.*—Java; Karimon-Java Island.

**\*Hypothymis azurea symmixta** Stres.

*Hypothymis azurea symmixta* Stresemann, Journ. f. Ornith. 1926, p. 554: Alor.

*Distr.*—Bali.

**Hypothymis azurea karimatensis** Chas. and Kloss.

*Hypothymis azurea karimatensis* Chasen and Kloss, Bull. Raffles Mus. 7, 1932, p. 8: Serutu Island, Karimata Islands.

*Distr.*—Karimata Islands, West Borneo.

**Hypothymis azurea opisthocyanea** Oberh.

*Hypothymis azurea opisthocyanea* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 602: Piling Island, Anamba Islands.

*Distr.*—Anamba Islands; Tambelan Islands.

**Hypothymis azurea gigantoptera** Oberh.

*Hypothymis azurea gigantoptera* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 600: Bunguran Island, North Natuna Islands.

*Distr.*—Natuna Islands.

**Hypothymis azurea aeria** Bangs and Peters.

*Hypothymis aeria* Bangs and Peters, Occ. Papers Boston Soc. Nat. Hist. v, 1927, p. 237: Maratua Island.

*Distr.*—Maratua Island, East Borneo.

**\*Hypothymis azurea consobrina** Richm.

*Hypothymis consobrina* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 189: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**Hypothymis azurea abbotti** Richm.

*Hypothymis abbotti* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 189: Babi Island, West Sumatra.

*Distr.*—Islands of Babi and Lasia, West Sumatra.

**\*Hypothymis azurea isocara** Oberh.

*Hypothymis azurea isocara* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 606: Bangkaru Island, Banjak Islands, West Sumatra.

*Distr.*—Banjak Islands, West Sumatra.

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† Rensch considers that the Bali bird is only *prophata* >< *symmixta*.

\***Hypothymis azurea amelis** Oberh.

*Hypothymis azurea amelis* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 608 : Nias Island.

*Distr.*—Nias Island, West Sumatra.

\***Hypothymis azurea ponera** Oberh.

*Hypothymis azurea ponera* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 604 : Tana Masa Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Hypothymis azurea leucophila** Oberh.

*Hypothymis azurea leucophila* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 607 : North Pagi Island, West Sumatra.

*Hypothymis azurea sipora* Chasen and Kloss, Ibis, 1926, p. 287 : Sipora Island, West Sumatra.

*Distr.*—Siberut, Sipora and Pagi Islands, Mentawi Islands, West Sumatra.

**Hypothymis azurea richmondi** Oberh.

*Hypothymis azurea richmondi* Oberholser, Proc. U.S. Nat. Mus. xxxix, 1911, p. 613 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

Genus **RHIPIDURA** Vigors and Horsfield.

**Rhipidura albicollis** (Vieill.). Mountain Fantail Flycatcher.

**Rhipidura albicollis albicollis** (Vieill.).

*Platyrrhynchos albicollis* Vieillot, Nouv. Dict. d'Hist. Nat. ed. 2, xxvii 1818, p. 13 : Bengal.

*Distr.*—Mt. Kinabalu, North Borneo.

**Rhipidura albicollis atrata** Salvad.†

*Rhipidura atrata* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 203 : Padang, West Sumatra.

*Rhipidura vidua* (nec Salvad.), Schleg. in Snelleman, Midden Sumatra, iv, 1884, pl. 2 : Sumatra.

*Rhipidura schlegeli* Sharpe, Zool. Rec. 1883, Aves, p. 21 : new name for *R. vidua* Schleg.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo (not Mt. Kinabalu).

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† *R. a. atrata* is a thin race just recognizable by reason of the comparatively large white tips to the tail feathers but in birds from Kinabalu these tips are very small.

MUSCICAPIDÆ.

**Rhipidura phoenicura** Müll. Javan Mountain Fantail Flycatcher.

*Rhipidura phoenicura* S. Müller, Verh. Nat. Gesch. Land en Volk.  
1843, p. 185: Java.

*Distr.*—Java.<sup>1</sup>

**Rhipidura perlata** S. Müll. Spotted Fantail Flycatcher.

**Rhipidura perlata perlata** S. Müll.

*Rhipidura perlata* Sal. Müller, Verh. Nat. Gesch. Land en Volk.  
1843, p. 185: Sumatra.

*Leucocerca rhombifer* Cab., Mus. Hein. i, 1850, p. 57: Sunda Islands.

*Rhipidura guttata* "Tem." Gray, Handl. Bds. i, 1869, p. 330: Borneo  
(nom. nud.).

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

**Rhipidura perlata euryura** (S. Müll.).

*Rhipidura euryura* S. Müller, Verh. Nat. Gesch. Land en Volk.  
1843, p. 185, footnote: Java.

*Distr.*—Java.<sup>2</sup>

**Rhipidura javanica** (Sparrm.). Fantail Flycatcher.

**Rhipidura javanica javanica** (Sparrm.).

*Muscicapa javanica* Sparrman, Mus. Carl. iii, 1788, pl. 75: Java.

*Platyrhynchus perspicillatus* Vieill., Nouv. Dict. d'Hist. Nat. ed. 2,  
xxxvii, 1818, p. 14: Africa error=Java.

*Muscicapa umbellata* Sundev., Phys. Sällsk. Jedskr. Lund. 1837, p. 72:  
East Java.

*Distr.*—Java; Bali.<sup>3</sup>

**Rhipidura javanica longicauda** Wall.

*Rhipidura longicauda* Wallace, Proc. Zool. Soc. 1865, p. 476:  
Sumatra.

*Leucocirca infumata* Hume, Stray Feathers, i, 1873, p. 455: Acheen.,  
North Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo; North Bornean Islands; Maratua group.

<sup>1</sup> Has also been recorded from Borneo but we think in error. In spite of its very different colour, *phoenicura* is, perhaps, only the Javan form of *R. albicollis* but as it lacks the white tips to the tail feathers, and we are unfamiliar with the many forms of this genus occurring in the regions to the east of Malaysia, we have, for the moment left *phoenicura* as a species.

<sup>2</sup> Has also been recorded from Sumatra and Borneo but we consider that its presence in both these islands requires confirmation. *R. euryura* is linked to *R. perlata* by incipient (or obsolete) spots on the under surface.

<sup>3</sup> The Bali bird is perhaps not *javanica*.

Genus **TERPSIPHONE** Gloger.<sup>1</sup>**Terpsiphone paradisi** (Linn.). Paradise Flycatcher.[**Terpsiphone paradisi paradisi** (Linn.).*Corvus paradisi* Linn., Syst. Nat. 10th. ed. 1758, p. 107: Ceylon (Linn. 1766).*Distr.*—Extra-limital.]**Terpsiphone paradisi affinis** (Blyth).<sup>2</sup>*Tchitreia affinis* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 292: Malacca.*Distr.*—Malay States.

Sumatra (part); Rhio and Lingga Archipelagos; Billiton.

**Terpsiphone paradisi indochinensis** (Sal.).*Tchitreia affinis indochinensis* F. Salomonsen, Ibis, 1933, p. 734: Cambodia.*Distr.*—Peninsular Siam.

Sumatra (north).

**Terpsiphone paradisi saturator** (Sal.).*Tchitreia affinis saturator* F. Salomonsen, Ibis, 1933, p. 732: Bhutan.*Distr.*—Malay Peninsula.<sup>3</sup>**Terpsiphone paradisi borneensis** (Hart.).*Tchitreia paradisi borneensis* Hartert, Bull. Brit. Orn. Cl. xxxvi, 1916, p. 75: Sarawak.*Distr.*—Borneo.**Terpsiphone paradisi australis** Chas.*Terpsiphone paradisi australis* Chasen, Ornith. Monatsber. 1935, p. 147: Lampongs, Sumatra.*Distr.*—South (south).  
Java.<sup>1</sup> Cf. Chas. and Kl., Journ. Mal. Br. Roy. Asiat. Soc. vi, (3), 1928, p. 65; Salomon. Ibis, 1933, p. 730.<sup>2</sup> We have a large number of these birds from the Malay Peninsula and it seems impossible to fix any definite boundary between the northern *indochinensis* and the southern *affinis* for not only is there a large area in which intermediate specimens occur, but the two forms inosculate. Birds from the territory of Malacca southwards are invariably *affinis*: those from Peninsular Siam are either *indochinensis*, or nearer to that race than to *affinis*. Some birds from Selangor and Pahang are also *affinis*. We cannot agree with Salomonsen (1933) that Sumatra is inhabited by *borneensis*. In that island the situation appears to be rather like that in the Malay Peninsula. From the north we have a pale male in brown plumage indistinguishable from *indochinensis* of Siam. Other specimens from further south are nearer to *affinis* which is the form occurring in the Rhio Archipelago. We have, however, seen very few specimens from Sumatra.<sup>3</sup> Occurs as far south as Taiping in Perak, Malay States.

**\*Terpsiphone paradisi procera** (Richm.).

*Tchitreia procera* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 510: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**Terpsiphone paradisi insularis** Salvad.

*Terpsiphone insularis* Salvadori, Ann. Mus. Gen. (2a), iv, 1886, p. 539: Nias.

*Distr.*—Nias Island, West Sumatra.

**Terpsiphone paradisi incei** (Gould).

*Muscipeta Incei* Gould, Birds of Asia, ii, 1852, pl. 19: Shanghai.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Nias Island, West Sumatra.

**Terpsiphone atrocaudata** (Eyt.). Japanese Paradise Flycatcher.

**Terpsiphone atrocaudata atrocaudata** (Eyt.).

*Muscipeta atrocaudata* Eyton, Proc. Zool. Soc. 1839, p. 102: Malay Peninsula = Malacca.

*Distr.*—Malay States.  
Sumatra.

Genus **DRYMOPHILA** Temminck.<sup>1</sup>

**Dryophila velata** (Temm.). Maroon-breasted Flycatcher.

**Dryophila velata velata** (Temm.).

*Dryophila velata* Temminck, Pl. Col. 334, 1825: Java; *Hartert*, 1902.

*Distr.*—Java.

**Dryophila velata cæsia** (Less.).

*Monarcha cæsia* (sic) Lesson, Rev. Zool. 1839, p. 167: Sumatra.

*Muscicapa pectoralis* Hay, Madr. Journ. Lit. Sci. xiii, 1844, p. 161: Malacca.

*Philentoma unicolor* Blyth, Ibis, 1865, p. 46: Borneo.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.

**Dryophila pyrhoptera** (Temm.). Chestnut-winged Flycatcher.

**Dryophila pyrhoptera pyrhoptera** (Temm.).

*Muscicapa pyrhoptera* Temminck, Pl. Col. 596, 1836: Borneo.

*Muscipeta plumosa* Blyth, Journ. Asiat. Soc. Beng. xi, 1842, p. 791: Malacca.

*Philentoma castaneum* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 229: Malacca.

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<sup>1</sup> Cf. Kloss, Journ. F.M.S. Mus. x, 1921, p. 217.



*Philentoma intermedius* Hume, Stray Feathers, ix, 1880, p. 113 : Johore.  
*Philentoma maxwelli* Bartlett, Journ. Straits Br. Roy. Asiat. Soc. xxviii,  
 1895, p. 96 : Sarawak.  
*Philentoma saravacense* Bartlett, Sarawak Note-book, pt. 9, 1896, p. 80 :  
 Sarawak.

Distr.—Malay Peninsula.  
 Sumatra.  
 Borneo.

***Drymophila pyrhoptera dubia* (Hart.).**

*Philentoma dubium* Hartert, Nov. Zool. i, 1894, p. 477 : Bunguran,  
 North Natuna Islands.

Distr.—Natuna Islands.

### Genus RHINOMYIAS Sharpe.<sup>1</sup>

***Rhinomyias olivacea* (Hume).<sup>2</sup>** Hume's Jungle-Flycatcher.

***Rhinomyias olivacea olivacea* (Hume).<sup>3</sup>**

*Cyornis olivaceus* Hume, Stray Feathers, v, 1877, p. 338 : South  
 Tenasserim.

*Rhinomyias pectoralis baliensis* Hart., Nov. Zool. iii, 1896, p. 549 : Bali.

Distr.—Peninsular Siam.  
 Sumatra; Billiton.  
 Borneo; North Natuna Islands.  
 Java; Bali.

***Rhinomyias olivacea perolivacea* Chas. and Kloss.**

*Rhinomyias olivacea perolivacea* Chasen and Kloss, Journ. f. Ornith.  
 1929, ii, p. 113 : Balambangan Island.

Distr.—Balambangan and Banguay Islands, North Borneo.

***Rhinomyias brunneata* (H. H. Slater).<sup>4</sup>** Migratory Jungle-Flycatcher.

*Siphia brunneata* H. H. Slater, Ibis, 1897, p. 175 : Fokkien.

*Rhinomyias tardus* Rob. and Kloss, Journ. Fed. Mal. States Mus. vi,  
 1915, p. 29 : Selangor, Malay States.

Distr.—Malay States.

<sup>1</sup> Cf. Chas. and Kl., Bull. Raff. Mus. 4, 1930, p. 56.

<sup>2</sup> Stuart Baker has proposed a new genus, *Olcyornis* for this species. It is clearly out of place in *Anthipes*, but is, obviously, one of the *Rhinomyias* association. Two other forms, *poliogenys* and *saturator*, linked to *olivacea* as subspecies by Stuart Baker are not, in our opinion, even congeneric!

<sup>3</sup> *Hyloterpe brunneicauda* Salvad., Ann. Mus. Civ. Stor. Nat. Gen. (1), xiv, 1879, p. 210 : West Sumatra, may apply to this species, but it also seems probable that it is either *Alcippe cinerea* Blyth (1844), or *Muscitrea cinerea* Blyth (1847).

<sup>4</sup> La Touche (1925) linked *R. brunneata* and *olivacea* as subspecies, but we doubt if they are thus closely related.

**Rhinomyias umbratilis** (Strickl.). White-throated Jungle-Flycatcher.

**Rhinomyias umbratilis umbratilis** (Strick.).

*Trichostoma umbratile* Strickland, Contr. Orn., 1849, p. 126, pl. 31 : Borneo.

*Alcippe pectoralis* Salvad., Atti. R. Accad. Sci. Torino, iii, 1868, p. 530 : Borneo.

*Muscicapa infuscata* Blyth, Ibis, 1870, p. 165 : Sumatra.

*Siphia albo-olivacea* Hume, Stray Feathers, v, 1877, p. 488 : Malacca.

*Rhinomyias umbratilis richmondi* Stone, Proc. Acad. Sci. Phil., lxiv, 1902, p. 686 : Mansalar Island, West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Lingga Archipelago; Mansalar Island, West Sumatra; Billiton.

Borneo (lowlands); North Natuna Islands; Karimata Islands.

**Rhinomyias umbratilis eclipsis** Oberh.

*Rhinomyias umbratilis eclipsis* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 12 : Tana Masa Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Rhinomyias ruficrissa**<sup>1</sup> Sharpe. Grey-breasted Jungle-Flycatcher.

**Rhinomyias ruficrissa ruficrissa** Sharpe.

*Rhinomyias ruficrissa* Sharpe, Ibis, 1887, p. 441 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Rhinomyias ruficrissa isola** (Hach.)<sup>2</sup>

*Rhinomyias ruficauda isola* Hachisuka, Bull. Brit. Orn. Cl. lii, 1932, p. 110 : Mt. Dulit, Sarawak.

*Distr.*—Borneo.

**Rhinomyias gularis** Sharpe. Kinabalu Jungle-Flycatcher.

*Rhinomyias gularis* Sharpe, Ibis, 1888, p. 385 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

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<sup>1</sup> As with other members of this genus we can, in the absence of material, attempt no further linking of subspecies : both *R. ruficrissa* and *R. gularis*, however, seem to have very near relatives in the Philippine Islands.

<sup>2</sup> This form is only accepted after much hesitation. To it the describer refers birds from Mt. Dulit, and Mt. Kalulong in Sarawak. In our collection five skins from Dulit are rather more rufous above than a topotype of *ruficrissa* from Mt. Kinabalu, but a sixth skin from Dulit, and three from Mt. Temabo in Baram are inseparable from *ruficrissa*.

Genus **CULICICAPA** Swinhoe.<sup>1</sup>

**Culicicapa ceylonensis** (Swains.). Grey-headed Flycatcher.

**Culicicapa ceylonensis ceylonensis** (Swains.).

*Platyrrhynchus ceylonensis* Swainson, Zool. Illus. ser. 1, 1820, pl. 13: Ceylon.

*Culicicapa ceylonensis amphiala* Oberh., Smiths. Misc. Coll. 1x, No. 7, 1912, p. 12: North Pagi Island, West Sumatra.

*Culicicapa ceylonensis antioxantha* Oberh., Smiths. Misc. Coll. lxxvi, No. 6, July, 1923, p. 9: Trang, Peninsular Siam.

*Culicicapa ceylonensis pellopira* Oberh., Smiths. Misc. Coll. lxxvi, No. 6, 1923, p. 9: Java.

*Culicicapa ceylonensis meridionalis* Baker, Bull. Brit. Orn. Cl. xlv, Oct. 1923, p. 12: Peninsular Siam.

*Culicicapa ceylonensis eophila* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 58: Bunguran Island, Natuna Islands.

*Distr.*—Malay Peninsula.

Sumatra; Lingga Archipelago; Mentawi Islands, West Sumatra.

Borneo; North Natuna Islands.

Java; Bali.

\***Culicicapa ceylonensis percnocara** Oberh.<sup>2</sup>

*Culicicapa ceylonensis percnocara* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 12: Simalur Island.

*Culicicapa ceylonensis pellowota* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 12: Nias Island.

*Distr.*—Simalur and Nias Islands, West Sumatra.

Genus **STOPORALA** Blyth.<sup>3</sup>

**Stoporala indigo** (Horsf.). Sunda Island Blue Flycatcher.

**Stoporala indigo indigo** (Horsf.).

*Muscicapa indigo* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 146: Java.

*Distr.*—Java.

**Stoporala indigo ruficrissa** Salvad.

*Stoparola ruficrissa* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 202: Padang district, West Sumatra.

*Distr.*—Sumatra.

<sup>1</sup> Cf. Chas. and Kloss, Journ. F.M.S. Mus. xiii, 1927, p. 5; Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 58.

<sup>2</sup> We have never seen skins from Simalur and Nias and therefore follow Riley in regarding birds from these islands as belonging to one race and in being distinct from typical *ceylonensis*.

<sup>3</sup> Cf. Snouck. v. Schaub., Org. Cl. Ned. Vog. i<sup>i</sup>, 1929, p. 40.

**Stoporala indigo cerviniventris** Sharpe.

*Stoparola cerviniventris* Sharpe, Ibis, 1887, p. 444: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Stoporala thalassina** (Swains.).

Verditer Flycatcher.

[*Stoporala thalassina thalassina* (Swains.).

*Muscicapa thalassina* Swainson, Nat. Libr. xxi, Flycatchers, 1838, p. 252: India.

*Distr.*—Extra-limital.]

**Stoporala thalassina thalassoides** (Cab.).

*Glaucomyias thalassoides* Cabanis, Mus. Hein. i, 1851, p. 53, foot-note; new name for *Muscicapa thalassina* Bp. (nec Swains.): Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.

Family CAMPEGHAGIDÆ.

Genus **CORACINA** Vieillot.

**Coracina javensis** (Horsf.).

Javan Cuckoo-Shrike.

**Coracina javensis javensis** (Horsf.).

*Cebblepyris Javensis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 145: Java.

*Distr.*—Java; Bali.

**Coracina javensis larutensis** (Sharpe).

*Artamides larutensis* Sharpe, Proc. Zool. Soc. 1887, p. 435: Larut Hills, Perak.

*Distr.*—Malay States.

**Coracina sumatrensis** (S. Müll.).<sup>1</sup>

Large Barred Cuckoo-Shrike.

**Coracina sumatrensis sumatrensis** (S. Müll.).

*Ceblypyris sumatrensis* S. Müller, Verh. Nat. Gesch., Land en Volk. 1843, p. 190: West Sumatra.

*Graucalus concretus* Hartl., Journ. f. Orn. 1864, p. 445: Borneo.

*Artamides sumatrensis messeris* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 517: Trang, Peninsular Siam.

*Artamides sumatrensis nesiarchus* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 517: Parit Island, near Karimon Island, Rhio Archipelago.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

Borneo; North Bornean Islands.

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<sup>1</sup> Revision: Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 103.

**Coracina sumatrensis bungurensis** (Hart.).<sup>1</sup>

*Graucalus bungurensis* Hartert, Nov. Zool. i, 1894, p. 477 :  
Bunguran Island, North Natuna Islands.

*Artamides sumatrensis calopolius* Oberh., Bull. U.S. Nat. Mus. 98, 1917,  
p. 34 : Mata Island, Anamba Islands.

*Distr.*—Anamba Islands.  
Natuna Islands.

**Coracina sumatrensis vordermani** (Hart.).

*Graucalus vordermani* Hartert, Bull. Brit. Orn. Cl. xii, 1901, p. 32 :  
Kangean Island.

*Distr.*—Kangean Islands.

**Coracina sumatrensis simalurensis** (Richm.).

*Graucalus simalurensis* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903,  
p. 513 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**\*Coracina sumatrensis babiensis** (Richm.).

*Graucalus babiensis* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903,  
p. 513 : Babi Island, West Sumatra.

*Distr.*—Babi Island, West Sumatra.

**Coracina sumatrensis kannegieteri** (Bütt.).

*Artamides Kannegieteri* Büttikofer, Notes Leyd. Mus. xviii, 1897,  
p. 175 : Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Coracina sumatrensis crissalis** (Salvad.).

*Graucalus crissalis* Salvadori, Ann. Mus. Civ. Gen. (2), xiv, 1894,  
p. 592 : Sipora Island.

*Artamides sumatrensis halistephis* Oberh., Smiths. Misc. Coll. lx, No. 7,  
1912, p. 14 : South Pagi Island.

*Distr.*—Siberut, Sipora and Pagi Islands, West Sumatra.

**Coracina sumatrensis enganensis** (Salvad.).

*Graucalus enganensis* Salvadori, Ann. Mus. Civ. Gen. (2) xii, 1892,  
p. 142 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

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<sup>1</sup> Individual birds from Tioman Island, east coast Malay Peninsula, and some of the Rhio Islands are also large and can be known as *sumatrensis* > *bungurensis* (= *nesiarchus* Oberh.).

**Coracina personata** (S. Müll.). Timor Cuckoo-Shrike.

[**Coracina personata personata** (Müll.).

*Ceblepyris larvata* S. Müller, Verh. Nat. Gesch. Land en Volk.  
1843, p. 190: Timor.

*Distr.*—Extra-limital.]

**Coracina personata larvata** (S. Müll.).

*Ceblepyris larvata* S. Müller, Verh. Nat. Gesch. Land en Volk.  
1843, p. 190: Java.

*Distr.*—Java.

**Coracina personata normani** (Sharpe).

*Graucalus normani* Sharpe, Ibis, 1887, p. 438: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Coracina personata melanocephala** (Salvad.).

*Graucalus melanocephalus* Salvadori, Ann. Mus. Civ. Gen. (2) xiv,  
1879, p. 206: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

### Genus **CHLAMYDOCHERA** Sharpe

**Chlamydochera jefferyi** Sharpe. Whitehead's Cuckoo-Shrike.

*Chlamydochera jefferyi* Sharpe, Ibis, 1887, p. 439, pl. 13: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

### Genus **LALAGE** Boie.

**Lalage melanoptera** (Rüpp.). Large Grey Cuckoo-Shrike.

*Ceblepyris melanoptera* Rüppell, Mus. Senckenb. iii, 1839, p. 25,  
pl. 2, fig. 1: New Holland, error=Burma.

*Distr.*—Peninsular Siam.

**Lalage fimbriata** (Temm.).<sup>1</sup> Small Grey Cuckoo-Shrike.

**Lalage fimbriata fimbriata** (Temm.).

*Ceblepyris fimbriatus* Temminck, Pl. Col. 249, 250, 1824: Java.

*Volucivora vidua* Hartl., Journ. f. Orn. 1865, p. 163: Java.

*Distr.*—Java; Bali.

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<sup>1</sup> Cf. Kloss, Journ. F.M.S. Mus. x, 1921, p. 219.

**Lalage fimbriata culminata** (A. Hay).

*Ceblepyris Culminatus* A. Hay, Madras Journ. xiii, 1845, pt. 2, p. 157: Malacca.

*Drymonax niger*<sup>1</sup> Less., Rev. Mag. Zool. 1839, p. 167: Sumatra.

*Volvocivora schierbrandii* Pelz., Reis. Novara, Vög. 1865, p. 80, pl. 2, fig. 1: Borneo.

*Campephaga borneensis* Salvad., Atti. R. Acc. Sci. Torino, iii, 1868, p. 532: Borneo.

*Campephaga minor* Davison, Ibis, 1892, p. 99: Pahang.

*Distr.*—Malay Peninsula (north to South Peninsular Siam).

Sumatra; Siberut Island, West Sumatra.

Borneo.

**Lalage fimbriata neglecta** (Hume).

*Volvocivora neglecta* Hume, Stray Feathers, v, 1877, p. 203: South Tenasserim.

*Distr.*—Peninsular Siam.

**Lalage fimbriata compta** Richmond.

*Campephaga compta* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 514: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**Lalage nigra** (Forst.).<sup>2</sup>

Pied Cuckoo-Shrike.

**Lalage nigra nigra** (Forst.).

*Turdus niger* Forster, Ind. Zool. 1781, p. 41: Singapore Island (Bangs, 1922).

*Turdus terat* Bodd., Tabl. Pl. Enlum. 1783, p. 17: Singapore (Kloss, 1926).

*Turdus orientalis* Gmel., Syst. Nat. i, 1788, p. 821: Singapore (Kloss, 1926).

*Ceblepyris striga* Horsf., Trans. Linn. Soc. xiii, 1821, p. 145: West Java.

*Pycnonotus humeraloides* Less., Echo du Monde Savant, 1844, p. 233: West Java.

*Lalage nigra brunescens* Stuart Baker, Bull. Brit. Orn. Cl. xlv, 1923, p. 13: Selangor, Malay States.

*Distr.*—Malay Peninsula.

Sumatra.

Java (not east); Karimon-Java Islands.

**Lalage nigra sueurii** (Vieill.).

*Turdus Suerii* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xii, 1818, p. 270: Timor.

*Distr.*—Java (east); Bali.

<sup>1</sup> "Corpora" is almost certainly an error: otherwise the description is meaningless. In it the first phrase seems to refer to the head.

<sup>2</sup> Cf. Kloss, Journ. Mal. Br. Roy. Asiat. Soc. iv, 1926, p. 158.

**\*Lalage nigra chalepa** (Oberh.).

*Perissolalage chalepa* Oberholser, Proc. U.S. Nat. Mus. liv, 1917,  
p. 182: Solombo Besar Island.

*Distr.*—Solombo Besar Island, East Java Sea.

**Lalage nigra schisticeps** Neum.<sup>1</sup>

*Lalage nigra schisticeps* Neumann, Journ. f. Ornith. lxxvii, 1919,  
p. 333: Culion Island, Philippine Islands.

*Distr.*—Borneo; North Bornean Islands; Maratua Islands.

**\*Lalage nigra empheris** Oberh.

*Lalage nigra empheris* Oberholser, Smiths. Misc. Coll. 1x, No. 7,  
1912, p. 15: Nias Island.

*Distr.*—Nias Island, West Sumatra.

Genus **PERICROCOTUS** Boie.<sup>2</sup>**Pericrocotus flammeus** (Forst.).

Scarlet Minivet.

[*Pericrocotus flammeus flammeus* (Forst.).

*Muscicapa flammea* Forster in Pennant's Ind. Zool. 1781, p. 25:  
Travancore.

*Distr.*—Extra-limital.]

**Pericrocotus flammeus flammifer** Hume.

*Pericrocotus flammifer* Hume, Stray Feathers, iii, 1875, p. 321:  
Pakchan, South Tenasserim.

*Distr.*—Malay Peninsula.

**Pericrocotus flammeus xanthogaster** (Raffles).

*Lanius xanthogaster* Raffles, Trans. Linn. Soc. xiii, 1822, p. 309:  
Bencoolen, West Sumatra.

*Phaenicornis ardens* Bp., Consp. Gen. Avium, i, 1850, p. 357: Sumatra.

*Pericrocotus subardens* Hume, Stray Feathers, v, 1877, p. 196: Sumatra.

*Distr.*—Malay States.<sup>3</sup>

Sumatra; Banka; Billiton.

Borneo.

**\*Pericrocotus flammeus modiglianii** Salvad.

*Pericrocotus modiglianii* Salvadori, Ann. Mus. Civ. Gen. (2) xii,  
1892, p. 130: Engano Island.

*Distr.*—Engano Island, West Sumatra.

<sup>1</sup> The type of *schisticeps* is an artifact (Stres., Orn. Monatsber. xxx, 1922, p. 88).

<sup>2</sup> Revisions: Rob., Journ. F.M.S. Mus. vi, 1915, p. 31: Stres., Mitt. Zool. Mus. xv, 1930, p. 635.

<sup>3</sup> In the Malay Peninsula, broadly speaking, *xanthogaster* occurs mainly in the south: it spreads northwards in the lowlands and *flammifer* has extended its range into the Malay States along the mountain ranges.



CAMPEGHAGIDÆ.

\**Pericrocotus flammeus minythomelas* Oberh.

*Pericrocotus andamanensis minythomelas* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 14: Simalur Island.

Distr.—Simalur Island, West Sumatra.

*Pericrocotus flammeus siebersi* Rensch.<sup>1</sup>

*Pericrocotus speciosus siebersi* Rensch, Orn. Monatsber. xxxvi, 1928, p. 47: Mt. Gede, West Java.

Distr.—Java; Bali.

*Pericrocotus montanus* Salvad.

Wray's Minivet.

*Pericrocotus montanus montanus* Salvad.

*Pericrocotus montanus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 205: Mountains of West Sumatra.

*Pericrocotus wrayi* Sharpe, Proc. Zool. Soc. 1888, p. 269, pl. 15: South Perak.

*Pericrocotus croceus* Sharpe, Proc. Zool. Soc. 1888, p. 269: South Perak.

Distr.—Malay States.

Sumatra.

*Pericrocotus montanus cinereigula* Sharpe.

*Pericrocotus cinereigula* Sharpe, Ibis, 1889, p. 192: Mt. Kinabalu, North Borneo.

Distr.—Borneo.

*Pericrocotus igneus* Blyth.

Fiery Minivet.

*Pericrocotus igneus igneus* Blyth.

*Pericrocotus igneus* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 309: Malacca.

*Pericrocotus minutus* Strickland in Jardine's Contr. Orn. 1849, p. 94, pl. 32: Borneo.

*Pericrocotus brevirostris minor* "Verr." Strickland in Jardine's Contr. Orn. 1849, p. 94: Borneo.

*Pericrocotus flagrans* Bp., Consp. Gen. Avium, i, 1850, p. 357: Sumatra.

Distr.—Malay Peninsula.

Sumatra; Billiton; Nias Island, West Sumatra.

Borneo.

\**Pericrocotus igneus trophis* Oberh.

*Pericrocotus igneus trophis* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 14: Simalur Island.

Distr.—Simalur Island, West Sumatra.

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<sup>1</sup> Birds from East Java and Bali are not exactly like topotypical *siebersi*, but are approaching *exsul* Wallace (Lombok).

**Pericrocotus cinnamomeus** (Linn.).<sup>1</sup> Small Minivet

[**Pericrocotus cinnamomeus cinnamomeus** (Linn.).

*Motacilla cinnamomea* Linn., Syst. Nat. 12th. ed. i, 1766, p. 335 : Ceylon.

*Distr.*—Extra-limital.]

**Pericrocotus cinnamomeus vividus** Baker.

*Pericrocotus peregrinus vividus* Stuart Baker, Bull. Brit. Orn. Cl. xl, 1920, p. 114 : Attaran River, Tenasserim.

*Distr.*—Peninsular Siam.

**Pericrocotus cinnamomeus saturatus** Baker.

*Pericrocotus peregrinus saturatus* Baker, Bull. Brit. Orn. Cl. xl, 1920, p. 115 : West Java.

*Distr.*—Sumatra.<sup>2</sup>

Borneo.

Java; Bali.

**Pericrocotus roseus** (Vieill.).

**Pericrocotus roseus** (Vieill.).

Rosy Minivet.

*Muscicapa rosea* Vieillot, Nov. Dict. d'Hist. Nat., ed. 2, xxi, 1818, p. 486 : Bengal.

*Distr.*—Peninsular Siam.

**Pericrocotus roseus cantonensis** Swinh.

Swinhoe's Minivet.

*Pericrocotus cantonensis* Swinhoe, Ibis, 1861, p. 42 : Canton, South China.

*Distr.*—Peninsular Siam.

**Pericrocotus roseus divaricatus** (Raffles).

Ashy Minivet.

*Lanius divaricatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 306 : Sumatra.

*Pericrocotus modestus* Strickland, Proc. Zool. Soc. for 1846, 1847, p. 102 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Pericrocotus miniatus** (Temm.).

Sunda Minivet.

**Pericrocotus miniatus miniatus** (Temm.).

*Muscicapa miniata* Temminck, Pl. Col. 156, 1822 : West Java.

*Distr.*—Sumatra.

Java.

<sup>1</sup> Revision : Snouck. v. Schaub., Treubia, xi, 1930, p. 309. See also Whistler, Journ. Bomb. Nat. Hist. Soc. xxxvi, 1933, p. 342.

<sup>2</sup> The localities Borneo and Sumatra need confirmation.

Family PYCNONOTIDÆ.<sup>1</sup>

Genus **ÆGITHINA** Vieillot.

**Ægithina viridissima** (Bp.). Green Iora.

**Ægithina viridissima viridissima** (Bp.).

*Iora viridissima* Bonaparte, Consp. Gen. Avium, i, 1850, p. 397 :  
Sumatra.

*Iora chloroptera* Salvad., Ann. Mus. Civ. Gen. 1874, p. 192 : Sarawak.

*Distr.*—Malay Peninsula; Tioman Island.

Sumatra; Rhio and Lingga Archipelagos; Banka; Billiton.  
Borneo; North Natuna Islands.

**Ægithina viridissima thapsina** Oberh.

*Aegithina viridissima thapsina* Oberholser, Bull. U.S. Nat. Mus.  
98, 1917, p. 40 : Siantan Island, Anamba Islands.

*Distr.*—Anamba Islands.

**Ægithina viridissima nesiotica** Oberh.

*Aegithina viridissima nesiotica* Oberholser, Smith. Misc. Coll. 1x,  
No. 7, 1912, p. 10 : Tana Bala Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Ægithina tiphia** (Linn.).

Common Iora.

[**Ægithina tiphia tiphia** (Linn.).

*Motacilla tiphia* Linn., Syst. Nat. 10th. ed., 1858, p. 186 : Bengal.

*Distr.*—Extra-limital.]

**Ægithina tiphia micromelaena** Oberh.

*Aegithina tiphia micromelaena* Oberholser, Smiths. Misc. Coll.  
lxxvi, No. 6, 1923, p. 7 : Banka Island.

*Distr.*—Peninsular Siam; Malay States (north).  
Sumatra; Banka Island.

**Ægithina tiphia singaporensis** Chas. and Kloss.

*Aegithina tiphia singaporensis* Chasen and Kloss, Bull. Raff. Mus.  
5, 1931, p. 85 : Singapore Island.

*Distr.*—Malay States (south).

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<sup>1</sup> There seems little point in removing from this family such genera as *Irena*, *Chloropsis*, etc. and creating special families for their reception until this and allied groups have received attention at the hands of a qualified anatomist.

Revisions: Snouck. v. Schaub., Org. Cl. Ned. Vog. vi, 1934, p. 140 and vii, 1935, p. 103.

**Ægithina tiphia viridis** (Bp.).

*Iora viridis* Bonaparte, Consp. Gen. Avium, i, 1850, p. 397 : North Borneo.

*Distr.*—Borneo (northern half); North Bornean Islands.

**Ægithina tiphia damicra** Oberh.

*Ægithina tiphia damicra* Oberholser, Smiths. Misc. Coll. lxxvi, No. 6, 1923, p. 7 : Smitau, Kapuas River, South-west Borneo.

*Ægithina tiphia sophonota* Oberholser, Smiths. Misc. Coll. lxxvi, No. 6, 1923, p. 8 : Taham, Central East Borneo.

*Distr.*—Borneo (southern half); Maratua Islands, East Borneo.

**Ægithina tiphia scapularis** (Horsf.).

*Iora scapularis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 152 : Java.

*Distr.*—Java; Bali.

**\*Ægithina tiphia horizopectera** Oberh.

*Ægithina tiphia horizopectera* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 9 : Nias Island, West Sumatra.

*Distr.*—Nias Island, West Sumatra.

Genus **ÆTHORHYNCHUS** Sundevall.

**Æthorhynchus lafresnayeii** (Hartl.).

Great Iora.

**Æthorhynchus lafresnayeii lafresnayeii** (Hartl.).

*Iora Lafresnayeii* Hartlaub, Rev. Mag. Zool. 1844, p. 401 : Malacca.

*Phenicomanos iora* Sharpe, Proc. Zool. Soc. 1874, p. 427, pl. 54 : Jamaica, error=Malacca.

*Distr.*—Malay Peninsula.<sup>1</sup>

Genus **CHLOROPSIS** Jardine and Selby.

**Chloropsis hardwickii** Jardine and Selby. Orange-bellied Leaf-Bird.

[*Chloropsis hardwickii hardwickii* Jard. and Selby.

*Chloropsis hardwickii* Jardine and Selby, Ill. Orn., sign. C. 3, 1830 : Nepal.

*Distr.*—Extra-limital.]

**Chloropsis hardwickii malayana** Rob. and Kloss.

*Chloropsis hardwickii malayana* Robinson and Kloss, Journ. Fed. Mal. States Mus. xi, 1923, p. 55 : Mt. Ijau, Perak.

*Distr.*—Malay States.

**Chloropsis venusta** (Bp.).

Sumatran Leaf-Bird.

*Phyllornis venusta* Bonaparte, Consp. Gen. Avium, i, 1850, p. 396 : Sumatra.

*Distr.*—Sumatra.

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<sup>1</sup> Birds from Peninsular Siam are really *A. lafresnayeii* > *innotata* Blyth.

**Chloropsis sonnerati** Jard. and Selby. Malachite-shouldered Leaf-Bird.

**Chloropsis sonnerati sonnerati** Jard. and Selby.

*Chloropsis sonnerati* Jardine and Selby, Illus. Orn. 1826, sign. B. 4 : Java.

*Turdus viridis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 148 : Java (not *T. viridis* P.L.S. Müll. 1776).

*Phyllornis mullerii* Temm., Pl. Col., 1829, livr. 81 : Java.

Distr.—Java.

**Chloropsis sonnerati zosterops** Vig.

*Chloropsis zosterops* Vigors, Mem. Life Raffles, 1830, p. 674 : Sumatra.

*Chloropsis viridis viriditectus* Hart., Nov. Zool. ix, 1902, p. 212, Baram, Sarawak.

Distr.—Malay Peninsula.

Sumatra; Rhio Archipelago; Billiton.

Borneo; North Natuna Islands.

**Chloropsis sonnerati parvirostris** Hart.

*Chloropsis zosterops parvirostris* Hartert, Orn. Monatsber. 1898, p. 93 : Nias Island.

Distr.—Nias Island, West Sumatra.

**Chloropsis cochinchinensis** (Gmel.).<sup>1</sup>

Green Leaf-Bird.

**Chloropsis cochinchinensis cochinchinensis** (Gm.).

*Turdus cochinchinensis* Gmelin, Syst. Nat. i, 1788, p. 825 : Cochin China.

Distr.—Peninsular Siam.

**Chloropsis cochinchinensis icterocephala** Less.

*Chloropsis icterocephala* Lesson, Rev. Mag. Zool. 1840, p. 164 : Palembang, Sumatra.

*Phyllornis moluccensis* J. E. Gray, Zool. Misc. 1832, p. 33 : Malacca (Strickl. 1840).

Distr.—Malay States.

Sumatra; Rhio and Lingga Archipelagos; Banka; Billiton.

North Natuna Islands.

**Chloropsis cochinchinensis viridinucha** (Sharpe).

*Phyllornis viridinucha* Sharpe, Ibis, 1877, p. 15 : Sarawak, Borneo.

Distr.—Borneo.

**Chloropsis cochinchinensis nigricollis** (Vieill.).

*Philemon nigricollis* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xxvii, 1818, p. 432 : Java.

*Meliphaga javensis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 152 : Java.

Distr.—Java.

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<sup>1</sup> Cf. Kloss, Journ. Mal. Br. Roy. Asiat. Soc. iv, 1926, p. 162.

**Chloropsis cochinchinensis flavocincta** Sharpe.

*Chloropsis flavocincta* Sharpe, Ibis, 1887, p. 445: Mt. Kinabalu, North Borneo.

*Chloropsis kinabaluensis* Sharpe, Ibis, 1887, p. 445: Mt. Kinabalu, North Borneo.

Distr.—Borneo.

**Chloropsis cyanopogon** (Temm.). Blue-whiskered Leaf-Bird.

**Chloropsis cyanopogon cyanopogon** (Temm.).

*Phyllornis cyanopogon* Temminck, Pl. Col. 512, 1832: Palembang, Sumatra.

*Chloropsis mysticalis* Swains., Anim. in Menag. 1838, p. 296: India, error=Malacca.

Distr.—Malay States.

Sumatra.

Borneo; Banguey Island, North Borneo.

**Chloropsis cyanopogon septentrionalis** Rob. and Kloss.

*Chloropsis cyanopogon septentrionalis* Robinson and Kloss, Journ. Nat. Hist. Soc. Siam, iii, 1918, p. 107: Ghirbi, Peninsular Siam.

Distr.—Peninsular Siam.

**Chloropsis aurifrons** (Temm.). Gold-fronted Leaf-Bird.

**[Chloropsis aurifrons aurifrons** (Temm.).

*Phyllornis aurifrons* Temminck, Pl. Col. 484, 1829: Sumatra error=Cachar (Baker).

Distr.—Extra-limital.]

**Chloropsis aurifrons media** (Bp.).

*Phyllornis media* Bonaparte, Consp. Gen. Avium, i, 1850, p. 396: Sumatra.

Distr.—Sumatra.

Genus **IRENA** Horsfield.<sup>1</sup>

**Irena puella** (Lath.). Fairy Bluebird.

**Irena puella puella** (Lath.).

*Coracias Puella* Latham, Index Orn. i, 1790, p. 171: Travancore, India.

Distr.—Peninsular Siam.

**Irena puella malayensis** Horsf. and Moore.

*Irena malayensis* Horsfield and Moore, Cat. Bds. Mus. East Ind. Coy. i, 1854, p. 274: Malacca.

*Muscicapa cyanea* Begbie, (not *M. cyanea* Müll., 1776), Malayan Peninsula, 1834, p. 517: Malay Peninsula.

Distr.—Malay States.

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<sup>1</sup> Cf. Oberh., Wash. Acad. Sci. vii, 1917, p. 537.

**Irena puella criniger** Sharpe.

*Irena criniger* Sharpe, Cat. Bds. Brit. Mus. iii, 1877, p. 267 : Borneo.

*Glaucynympha cyanea megacyanea* Oberholser, Journ. Wash. Acad. Sci. vii, 1917, p. 540 : Tuanku Island, Banjak Islands, West Sumatra.

*Distr.*—Sumatra; Mendanau Island; West Sumatra Islands of Banjak, Nias, Batu, Siberut, Sipora and Pagi.  
Borneo.

**Irena puella turcosa** Walden.

*Irena turcosa* Walden, Ann. Mag. Nat. Hist. (4) v, 1870, p. 417 : Java.

*Distr.*—Java.<sup>1</sup>

Genus **IXOS** Temminck.

**Ixos cinereus** (Blyth).

Ashy Bulbul.

**Ixos cinereus cinereus** (Blyth).

*Iole cinerea* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 573 : Malacca.

*Trichophorus pulverulentus* Bp., Consp. Gen. Avium, i, 1850, p. 262 : Sumatra.

*Iole terricolor* Hume, Stray Feathers, vii, 1878, p. 141 : Malacca.

*Distr.*—Malay Peninsula.  
Sumatra.

**Ixos cinereus connectens** (Sharpe).

*Hemixus connectens* Sharpe, Ibis, 1887, p. 446 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Ixos virescens** Temm.

Java Streaked Bulbul.

**Ixos virescens virescens** Temm.

*Ixos virescens* Temminck, Pl. Col. 382, 1825 : Java.

*Distr.*—Java.

**Ixos virescens sumatranus** (Wardl.-Rams.).

*Hemixus sumatranus* Wardlow-Ramsay, Ann. Mag. Nat. Hist. (5), x, 1882, p. 431 : Sumatra.

*Trichophorus striolatus* Bp., Consp. Gen. Avium, i, 1850, p. 262 : Sumatra.

*Distr.*—Sumatra.

**Ixos malaccensis** (Blyth).

Streaked Bulbul.

*Hypsipetes malaccensis* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 574 : Malacca.

*Distr.*—Malay Peninsula.  
Sumatra; Lingga Island.  
Borneo.

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<sup>1</sup> Not yet recorded from East Java.

***Ixos maclellandii* (Horsf.).** McClelland's Bulbul.

[***Ixos maclellandii maclellandii* (Horsf.).**

*Hypsipetes McClellandii* Horsfield, Proc. Zool. Soc. for 1839, 1840, p. 159: Assam.

*Distr.*—Extra-limital.]

***Ixos maclellandii peracensis* (Hart. and Butl.).**

*Iole tickelli peracensis* Hartert and Butler, Nov. Zool. v, 1898, p. 506: Mt. Ijau, Perak.

*Distr.*—Malay Peninsula.

### Genus **IOLE** Blyth.

***Iole olivacea* Blyth<sup>1</sup>.** Crested Olive Bulbul.

***Iole olivacea olivacea* Blyth.**

*Iole olivacea* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 386: Singapore Island.

*Trichophorus brunescens* Finsch, Journ. f. Orn., 1867, p. 19: Sumatra (nom. nud.).

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka; Billiton.  
North Natuna Islands.

***Iole olivacea cinnamomeoventris* Baker.**

*Iole virescens cinnamomeoventris* Stuart Baker, Bull. Brit. Orn. Cl xxxviii, 1917, p. 16: Tenasserim.

*Distr.*—Peninsular Siam.<sup>2</sup>

**\**Iole olivacea crypta* Oberh.<sup>3</sup>**

*Iole olivacea crypta* Oberholser, Proc. Biol. Soc. Wash. xxxi, 1918, p. 197: Jimaja Island, Anamba Islands.

*Distr.*—Anamba Islands.

***Iole olivacea charlottæ* (Finsch).**

*Criniger Charlottæ* Finsch, Journ. f. Ornith. xv, 1867, p. 19: Borneo.

*Distr.*—Borneo; Banguey Island, North Borneo.

<sup>1</sup> We do not accept the lumping of *Ixocincla* and *Iole* and resulting invalidation of *Iole olivacea* Blyth.

<sup>2</sup> Trang forms the meeting place of this race and *I. o. olivacea*: both forms occur in the district.

<sup>3</sup> We have never seen exact topotypes of this race and in series it may prove to be rather larger than typical *olivacea* as most Anamba forms vary in the direction of large size. We cannot however admit *crypta* for Sumatra from which island we have seen large series.



Genus **EUPTILOSUS** Gray.

**Euptilosus eutilotus** (Jard. and Selb.). Crested Brown Bulbul.

*Brachypus eutilotus* Jardine and Selby, Ill. Orn. (new ser.) 1836, pl. 3 : Singapore Island.

*Brachypodius tristis* Blyth, Journ. Asiat. Soc. Beng. xiv, 1845, p. 576 : Penang.

*Brachypus tympanistrigus* Bp., (not Müll.), Consp. Gen. Avium, i, 1850, p. 264 : Sumatra.

*Microtarsus cantori* Horsf. and Moore, Cat. Bds. Mus. East Ind. Coy. i, 1854, p. 409 : Malacca.

*Trichophorus susanni* Bp., Notes Coll. Delattre, in Comptes Rendus, 1854, p. 59 : Borneo.

*Distr.*—Malay Peninsula.

Sumatra; Banka.

Borneo.

**Euptilosus urostictus** (Salvad.). Wattled Bulbul.

[**Euptilosus urostictus urostictus** (Salvad.).

*Brachypus urostictus* Salvadori, Atti R. Accad. Sc. Torino, v, 1870, p. 509 : Philippine Islands.

*Distr.*—Extra-limital.]

**Euptilosus urostictus nieuwenhuisii** (Finsch).

*Poliolophus Nieuwenhuisii* Finsch, Notes Leyd. Mus. xxiii, 1902, p. 95 : Upper Kajan River, Bulongan, Central Borneo.

*Distr.*—Borneo.

Genus **BRACHYPODIUS** Blyth.

**Brachypodius atriceps** (Temm.).<sup>1</sup> Black-headed Bulbul.

**Brachypodius atriceps atriceps** (Temm.).

*Turdus atriceps* Temminck, Pl. Col. 147, 1823 : Java.

*Lanius melanocephalus*<sup>2</sup> Gmel., Syst. Nat. i, 1788, p. 309 : Sumatra.

*Ixos chalcoccephalus* Temm., Pl. Col. 453, fig. i, 1828 : Java.

*Ixos metallicus* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 228 : Malacca.

*Brachypodius immaculatus* Sharpe, Ibis, 1876, p. 39 : Sumatra.

*Brachypodius atriceps chrysophorus* Oberh., Smiths. Misc. Coll. 1x, No. 7, 1912, p. 10 : South Pagi Island, West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Banka; Billiton; West Sumatran Islands of Nias and Mentawi group.

Borneo.

Java; Bali.

<sup>1</sup> In the north of Peninsular Siam this species is more properly represented by *B. a.* > *cinereoventris* Blyth (Tipperah) of which *major* Rob. and Kloss (North Cachar) seems to be a synonym.

<sup>2</sup> Not *L. melanocephalus* id., ib. p. 301.

\***Brachypodius atriceps baweanus** (Finsch).<sup>1</sup>

*Brachypodius baweanus* Finsch, Notes Leyd. Mus. xxii, 1901, p. 209: Bawean Island.

*Microtarsus melanocephalos abbotti* Oberh., Proc. U.S. Nat. Mus. lli, 1917, p. 193: Bawean Island.

Distr.—Bawean Island.

\***Brachypodius atriceps hyperemnus** (Oberh.).

*Microtarsus melanocephalos hyperemnus* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 10: Simalur Island.

Distr.—Simalur Island, West Sumatra.

**Brachypodius atriceps hodiernus** Bangs and Peters.

*Microtarsus hodiernus* Bangs and Peters, Occ. Papers Boston Soc. Nat. Hist. v, 1927, p. 238: Maratua Island.

Distr.—Maratua Islands, East Borneo.

Genus **MICROTARSUS** Eyton.

**Microtarsus melanoleucos** Eyton. Black-and-White Bulbul.

*Microtarsus melanoleucos* Eyton, Proc. Zool. Soc. 1839, p. 102: Malacca.

*Brachypus vidua* Bp., Consp. Gen. Avium, 1850, i, p. 264: Borneo.

*Microtarsus melanoleucos proximus*<sup>2</sup> Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 96: Siberut Island, West Sumatra.

Distr.—Malay States.

Sumatra; Siberut Island, West Sumatra.

Borneo.

Genus **CRINIGER** Temminck.<sup>3</sup>

**Criniger gutturalis** (Bp.). Crested Bulbul.

**Criniger gutturalis ochraceus** Horsf. and Moore.

*Criniger ochraceus* Horsfield and Moore, Cat. Bds. Mus. East Ind. Coy. i, 1854, p. 252: Tenasserim.

*Criniger sordidus* Richmond, Proc. U.S. Nat. Mus. xxii, 1900, p. 320: Trang, Peninsular Siam.

Distr.—Peninsular Siam; Malay States (extreme north).

<sup>1</sup> We regard the grey forms of *Brachypodius* as common mutations, but it is curious that they are unknown in some areas occupied by the species.

<sup>2</sup> There is no difference in colour between many fresh skins of *melanoleucos* and "*proximus*".

<sup>3</sup> The Malaysian subspecies of *Criniger* are very difficult to combine into species and the present attempt is, frankly, little more than suggestive. A significant feature is that only in the Malay Peninsula does one meet with two forms in any one place and that even here they are largely mutually exclusive. *C. tephrogenys* is common in the lowlands throughout the whole length of the Peninsula. *C. sacculatus* only occurs in the south of the Peninsula at high elevations. *C. ochraceus* occurs only in the north, but it overlaps the range of *tephrogenys*. Were it not for this it would be possible to regard all Malaysian forms as representatives of one widely-spread species.

**Criniger gutturalis sacculatus** Rob.

*Criniger ochraceus sacculatus* Robinson, Ibis, 1915, p. 746: Ginting Bidei, Selangor.

Distr.—Malay States.

**Criniger gutturalis sumatranus** Wardl.-Rams.

*Criniger sumatranus* Wardlaw-Ramsay, Ann. Mag. Nat. Hist. (5) x, 1882, p. 431: Sumatra.

Distr.—Sumatra (mountains).

**Criniger gutturalis gutturalis** (Bp.).

*Trichophorus gutturalis* Bonaparte, Consp. Gen. Avium, i, 1850, p. 266: Borneo.

Distr.—Borneo (lowlands).

**Criniger gutturalis ruficrissus** Sharpe.

*Criniger ruficrissus* Sharpe, Proc. Zool. Soc. 1879, p. 248: Mt. Kinabalu, North Borneo.

Distr.—Borneo (mountains).

**Criniger tephrogenys** (Jard. and Selb.).

Scrub Bulbul.

**Criniger tephrogenys tephrogenys** (Jard. and Selb.).

*Trichophorus tephrogenys* Jardine and Selby, Ill. Orn. iii, 1833, pl. 127: Malacca.

Distr.—Malay Peninsula.  
Sumatra (lowlands).

**Criniger tephrogenys bartelsi** Coll. and Hart.

*Criniger balicus bartelsi* Collin and Hartert, Nov. Zool. xxxiv, 1927, p. 51: nom. nov. for *Turdus gularis* Horsf. (not Lath. 1801): West Java.

*Turdus gularis* Horsf., Trans. Linn. Soc. xiii, 1822, p. 150: Java.

Distr.—Java (not east).

**Criniger tephrogenys balicus** Stres.

*Criniger gularis balicus* Stresemann, Nov. Zool. xx, 1913, p. 358: Bali.

Distr.—Java (east); Bali.

**Criniger finschii** Salvad.<sup>1</sup>

Finsch's Bulbul.

*Criniger finschii* Salvadori, Atti R. Accad. Torini, vi, 1871, p. 128: Borneo.

*Criniger theiodes* Hume, Stray Feathers, iv, 1876, p. 214: Jokore, Malay Peninsula.

Distr.—Malay States.  
Sumatra.  
Borneo.

<sup>1</sup> This is not a common bird and we have never seen a good series of topotypes.

Genus **ALOPHOIXUS** Oates.

**Alophoixus phaeocephalus** (Hartl.). White-throated Bulbul.

**Alophoixus phaeocephalus phaeocephalus** (Hartl.).

*Ixos phaeocephalus* Hartlaub, Rev. Mag. Zool. 1844, p. 401: Malacca.

*Trichophorus caniceps* Lafr., Rev. Mag. Zool. 1845, p. 367: "de l'Inde" = Malacca.

*Pycnonotus rufocaudatus* Eyton, Ann. Nat. Hist. xvi, 1845, p. 228: = Malacca.

*Trichophorus sulphuratus* Bp., Consp. Gen. Avium, 1850, p. 262: Borneo error = Sumatra.

*Criniger cantori* Moore, Proc. Zool. Soc. 1854, p. 279 = Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Billiton.

North Natuna Islands.

**Alophoixus phaeocephalus diardi** (Finsch).

*Criniger diardi* Finsch, Journ. f. Orn. 1867, p. 18: Pontianak, South-west Borneo.

*Distr.*—Borneo (part).<sup>1</sup>

**Alophoixus phaeocephalus connectens** Chas. and Kloss.

*Alophoixus phaeocephalus connectens* Chasen and Kloss, Journ. f. Orn. 1929, Bd. 2, p. 144: Sandakan, North Borneo.

*Distr.*—Borneo (part).

**Alophoixus phaeocephalus medius** Kloss.

*Alophoixus phaeocephalus medius* Kloss, Treubia, xii, 1930, p. 412: Long Petah, Telen River, East Borneo.

*Distr.*—Borneo (part).

Genus **SETORNIS** Lesson.

**Setornis criniger** Less.

Van Bemmelen's Bulbul.

*Setornis criniger* Lesson, Rev. Mag. Zool. 1839, p. 167: Sumatra error = Borneo.

*Trichophoropsis typus* Bp., Compt. Rend. xxxviii, 1854, p. 59: Borneo.

*Criniger bemmeleni* Finsch, Journ. f. Orn. 1867, p. 29: Borneo.

*Distr.*—Banka Island.

Borneo.

<sup>1</sup> The ranges of the Bornean races of *A. phaeocephalus* are rather complicated: See Kloss, Treubia, xii, 1930, p. 413.

Genus **TRICHOLESTES** Salvadori.

**Tricholestes criniger** (Blyth). Hairy-backed Bulbul.

**Tricholestes criniger criniger** (Blyth).

*Brachypodius* ? *criniger* "Hay", Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 577: Malacca.

*Trichophorus minutus* Hartl., Journ. f. Orn. 1853, p. 156: Malacca.

*Distr.*—Malay Peninsula; Tioman Island.

North Natuna Islands.

**Tricholestes criniger sericea** Rob. and Kloss.

*Tricholestes criniger sericea* Robinson and Kloss, Journ. Fed. Mal. States Mus., xi, 1924, p. 288: West Sumatra.

*Distr.*—Sumatra; Mansalar Island, West Sumatra.

**Tricholestes criniger viridis** (Bp.).

*Trichophoropsis viridis* Bonaparte, Compt. Rend. 1854, p. 59: Borneo.

*Distr.*—Borneo.

Genus **ALCURUS** Blyth.

**Alcurus leucogrammicus** (S. Müll.). Striated Green Bulbul.

**Alcurus leucogrammicus leucogrammicus** (S. Müll.).

*Pycnonotus leucogrammicus* Sal. Müller, Tijds. Nat. Gesch. Phys. 1835, p. 352: Sumatra.

*Distr.*—Sumatra.

Genus **TRACHYCOMUS** Cabanis.

**Trachycomus zeylanicus** (Gm.). Yellow-crowned Bulbul.

*Sturnus zeylanicus* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 804: Ceylon error=Java (Rob. and Kloss, 1924).

*Turdus ochrocephalus* Gmel., Syst. Nat. i, pt. 2, 1789, p. 821: Ceylon error=Java.

*Trichophorus crispiceps* Blyth, Journ. Asiat. Soc. Beng. xi, 1842, p. 204: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Nias Island; West Sumatra.

Borneo.

Java.

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<sup>1</sup> *Criniger sericea* Müll. in Blyth, Ibis, 1865, p. 48 is *nom. nud.* and although the name was later treated as a synonym of *T. criniger* I consider that a subsequent description is valid.

Genus **PYCNONOTUS** Boie.

**Pycnonotus bimaculatus** (Horsf.). Orange-spotted Bulbul.

**Pycnonotus bimaculatus bimaculatus** (Horsf.).

*Turdus bimaculatus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 147 : East Java.

*Crocopsis bimaculatus tenggerensis* van Oort, Notes Leyden Mus. xxxiv, 1918, p. 19 : Mt. Tengger, East Java.

*Distr.*—Java (east); Bali.

**Pycnonotus bimaculatus barat** Rob. and Kloss.

*Pycnonotus bimaculatus barat* Robinson and Kloss, Journ. Straits Branch Roy. Asiat. Soc. lxxxix, 1920, p. 103 : Korinchi, West Sumatra.

*Distr.*—Java (west).  
Sumatra (part).

**Pycnonotus bimaculatus snouckaerti** Siebers.

*Pycnonotus snouckaerti* Siebers, Treubia, x, 1928, p. 395 : Takengon Lake, Acheen, North Sumatra.

*Distr.*—Sumatra (north).

**Pycnonotus finlaysoni** Strickl.<sup>1</sup> Stripe-throated Bulbul.

**Pycnonotus finlaysoni finlaysoni** Strickl.

*Pycnonotus Finlaysoni* Strickland, Ann. Nat. Hist. xiii, 1844, p. 411 : Malacca (*Hartert*).

*Distr.*—Malay Peninsula.

**Pycnonotus goiavier** (Scop.). Yellow-vented Bulbul.

[**Pycnonotus goiavier goiavier** (Scop.).

*Muscicapa goiavier* Scopoli, Del. Faun. et Flor. Insubr. ii, 1786, p. 96 : Philippine Islands.

*Distr.*—Extra-limital.]

**Pycnonotus goiavier analis** (Horsf.).

*Turdus analis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 147 : Java.

*Distr.*—Java; Bali; Karimon-Java Islands.

**Pycnonotus goiavier personatus** (Hume).

*Otocompsa personata* Hume, Stray Feathers, i, 1873, p. 457 : Acheen, North Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra; Rhio Archipelago; Banka; Billiton.

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<sup>1</sup> Perhaps the continental form of *P. bimaculatus*.

**Pycnonotus goiavier gourdinii** (Jacq. and Puch.).

*Ixos gourdinii* Jaquinot and Pucher, Voy. Pôle Sud, texte, Zool. iii, 1853, p. 79: Bandjermasin, South Borneo.

*Distr.*—Borneo; Maratua Islands, East Borneo.

**Pycnonotus leucops** (Sharpe).<sup>1</sup> White-faced Mountain-Bulbul.

*Oreotistes leucops* Sharpe, Ibis, 1888, p. 388, pl. 9, fig. 1: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Pycnonotus blanfordi** Jerd. Blanford's Bulbul.

[**Pycnonotus blanfordi blanfordi** Jerdon.

*Pycnonotus blanfordi* Jerdon, Ibis, 1862, p. 20: Thayetmyo, Burma.

*Distr.*—Extra-limital.]

**Pycnonotus blanfordi robinsoni** O.-Grant.

*Pycnonotus robinsoni* Ogilvie-Grant, Fasc. Malay. iii, 1906, p. 85: Patani, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Pycnonotus plumosus** Blyth.<sup>2</sup> Large Olive Bulbul.

**Pycnonotus plumosus plumosus** Blyth.

*Pycnonotus plumosus* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 567: Singapore.

*Distr.*—Malay Peninsula.

Sumatra (east); Rhio Archipelago; Banka.

Java; Bawean Island.

**Pycnonotus plumosus billitonis** Chas.

*Pycnonotus plumosus billitonis* Chasen, Ornith. Monatsber. 1935, p. 148: Billiton.

*Distr.*—Billiton Island.

**Pycnonotus plumosus porphyreus** Oberh.

*Pycnonotus plumosus porphyreus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 11: North Pagi Island, West Sumatra.

*Picnonotus inornatus* Bp. (not *Ixos inornatus* Fraser, 1843), Consp. Gen. Avium, 1850, p. 263: Sumatra, *restr.* Padang, West Sumatra.

*Distr.*—Sumatra (west); West Sumatran Islands of Banjak group; Mansalar; Nias; Batu group; Mentawi group;

**Pycnonotus plumosus insularis** Chas. and Kloss.

*Pycnonotus plumosus insularis* Chasen and Kloss, Journ. f. Ornith. 1929, Bd. 2, p. 115: Banguey Island, North Borneo.

*Distr.*—Borneo;<sup>3</sup> North Bornean Islands.

<sup>1</sup> Although this bird bears a strong superficial resemblance to *P. analis* we believe that its nearest relative is the continental "*Xanthirus*" *flavescens*.

<sup>2</sup> Cf. Chas. and Kl., Bull. Raff. Mus. 4, 1930, p. 66.

<sup>3</sup> Perhaps not the whole of Borneo: birds from areas other than the north and east may be *P. plumosus* or *plumosus* > *insularis*: on the available material we cannot decide.

***Pycnonotus plumosus chiroplethis* Oberh.**

*Pycnonotus plumosus chiroplethis* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 41: Siantan Island, Anamba Islands.

*Distr.*—Anamba Islands; Tinggi Island, east coast Malay Peninsula.

***Pycnonotus simplex* Less.**

Moore's Olive Bulbul.

***Pycnonotus simplex simplex* Less.<sup>1</sup>**

*Pycnonotus simplex* Lesson, Rev. Mag. Zool. 1839, p. 167: Sumatra.

*Microtarsus olivaceus* Horsf. and Moore, Cat. Bds. Mus. East Ind. Coy., 1854, p. 249: Malacca.

*Pycnonotus olivaceus chloeodis* Oberh., Smiths. Misc. Coll. 1x, No. 7, 1912, p. 11: Tapanuli Bay, North-east Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Banka; Nias Island, West Sumatra.

***Pycnonotus simplex perplexus* Chas. and Kloss.**

*Pycnonotus simplex perplexus* Chasen and Kloss, Journ. f. Orn. 1929, Bd. 2, p. 116: Balambangan Island, North Borneo.

*Distr.*—Borneo; South Natuna Islands; Billiton.

***Pycnonotus simplex halizonus* Oberh.**

*Pycnonotus simplex halizonus* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 43: Jimaja Island, Anamba Islands.

*Pycnonotus simplex axanthius* Oberholser, Bull. U.S. Nat. Mus. 159, 1928, p. 78: Bunguran Island, North Natuna Islands.

*Distr.*—Anamba Islands.

North Natuna Islands.

***Pycnonotus simplex prillwiti* Hart.**

*Pycnonotus prillwiti* Hartert, Nov. Zool. ix, 1902, p. 561: Karangbolong, South Java.

*Distr.*—Java.

***Pycnonotus brunneus* Blyth.**

Brown Bulbul.

***Pycnonotus brunneus brunneus* Blyth.**

*Pycnonotus brunneus* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 568: Malacca.

*Pycnonotus brunneus saphaeus* Oberh.,<sup>2</sup> Proc. U.S. Nat. Mus. liv, 1917, p. 194: Mata Sireh Island, Java Sea.

*Distr.*—Malay Peninsula.

Sumatra; Banjak and Nias Islands, West Sumatra.

Borneo; Banguey Island, North Borneo; Karimata Islands.

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<sup>1</sup> *P. brunneus* is, of course, not a synonym of *simplex* (cf. F.B.I., 2nd ed. vii, p. 87) but a distinct species: *modestus* Blyth is a nomen nudum but it refers to *brunneus* and not to *simplex*.

<sup>2</sup> We have never seen exact topotypes of *P. b. saphaeus* but we cannot separate Bornean birds which are said by Oberholser to be *saphaeus*.



**Pycnonotus brunneus zapolius** Oberh.

*Pycnonotus brunneus zapolius* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 45: Siantan Island, Anamba Islands.

*Distr.*—Tioman Island, east coast Malay Peninsula.  
Anamba Islands.

**Pycnonotus erythrophthalmos** (Hume).

Small Olive Bulbul

**Pycnonotus erythrophthalmos erythrophthalmos** (Hume).

*Ixos erythrophthalmos* Hume, Stray Feathers, vi, 1878, p. 314: Pakchan, South Tenasserim.

*Pycnonotus erythrophthalmos cyanocephalus* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 10: Rupat Strait, East Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra; Billiton.

**Pycnonotus erythrophthalmos salvadorii** Sharpe.

*Pycnonotus salvadorii* Sharpe, Cat. Bds. Brit. Mus. vi, 1881, p. 401, (nom. nov. for *P. pusillus* Salvad., not *Hæmatornis pusillus* Blyth, 1841): Sarawak, Borneo.

*Pycnonotus pusillus* Salvadori, Ann. Mus. Civ. Gen. 1874, p. 200: Sarawak.

*Distr.*—Borneo.

**\*Pycnonotus erythrophthalmos isus** Oberh.

*Pycnonotus erythrophthalmos isus* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 10: Tuanku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**\*Pycnonotus erythrophthalmos pammicrus** Oberh.

*Pycnonotus erythrophthalmos pammicrus* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 11: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Pycnonotus cyaniventris** Blyth.

Grey-bellied Bulbul.

**Pycnonotus cyaniventris cyaniventris** Blyth.

*Pycnonotus* (?) *cyaniventris* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 792: Singapore Island.

*Malacopteron aureum* Eyton, Ann. Nat. Hist. xxvi, 1845, p. 229: Malacca.

*Brachypus polioptis* Bp., Consp. Gen. Avium, 1850, p. 264: Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.

**Pycnonotus cyaniventris paroticalis** (Sharpe).

*Ididia paroticalis* Sharpe, Ibis, 1878, p. 418: Sarawak, Borneo.

*Distr.*—Borneo.

**Pycnonotus tympanistrigus**\* (Müll.). Small White-streaked Bulbul.

*Ixos tympanistrigus* S. Müller, Tijds. Nat. Gesch. Phys. 1835, p. 353 : Sumatra.

*Brachypus tigus* Bp., Consp. Gen. Avium, i, 1850, p. 264 : Sumatra.

Distr.—Sumatra.

**Pycnonotus flaviventris** (Tick.). Black-crested Yellow Bulbul.

[**Pycnonotus flaviventris flaviventris** (Tickell).]

*Vanga flaviventris* Tickell, Journ. Asiat. Soc. Beng. ii, 1833, p. 573 : Chota Nagpur.

Distr.—Extra-limital.]

**Pycnonotus flaviventris minor** (Kloss).

*Otocompsa flaviventris minor* Kloss, Ibis, 1918, p. 200 : Koh Lak, South-west Siam.

Distr.—Malay Peninsula.

**Pycnonotus flaviventris montis** (Sharpe).

*Rubigula montis* Sharpe, Proc. Zool. Soc. 1879, p. 247 : Mt. Kinabalu, North Borneo.

Distr.—Borneo.

**Pycnonotus dispar** (Horsf.). Ruby-throated Bulbul.

**Pycnonotus dispar dispar** (Horsf.).

*Turdus dispar* Horsfield, Trans. Linn. Soc. xiii, 1820, p. 150 : Java.

Distr.—Sumatra.

Java.

**Pycnonotus squamatus** (Temm.). Scaly-breasted Bulbul.

**Pycnonotus squamatus squamatus** (Temm.).

*Turdus squamatus* Temminck, Pl. Col. 453, 1828 : Java.

Distr.—Java.

**Pycnonotus squamatus webberi** (Hume).

*Ixidia webberi* Hume, Stray Feathers, viii, 1879, p. 40 : Tongka (Junk Zeylon) Island, North Malay Peninsula.

Distr.—Malay Peninsula.

Sumatra.

Borneo.

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\* Sharpe, Cat. Bds. vi, p. 62 (footnote) appears to have been mistaken in stating that the type of *Ixos tympanistrigus* Müll. is a specimen of *Euphilosus eutilotus* Jard. and Selby, for according to Mr. G. C. H. Junge (in litt.) who has kindly examined the material in the Leyden Museum the type specimen of *tympanistrigus* is the bird later described as *B. tigus* Bp. : Finsch noted this in Notes Leyd. Mus. xxvi, p. 95.

**Pycnonotus aurigaster** (Vieill.). Golden-vented Bulbul.

**Pycnonotus aurigaster aurigaster** (Vieill.).

*Turdus aurigaster* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xx, 1818, p. 258: Java.

*Brachypus chrysorrhæus* Stephs., Gen. Zool. xiii, 1826, p. 189.

*Pycnonotus crocorrhous* Strickl., Ann. Nat. Hist. xiii, 1844, p. 412: Java.

*Pycnonotus aurigaster martini* Parrot, Abh. Kon. Bay. Acad. Wiss. xxiv, 1907, p. 239: Sumatra.

*Distr.*—Singapore Island (introduced).

Sumatra (introduced).

Java.

**Pycnonotus jocosus** (Linn.).

Red-whiskered Bulbul.

[**Pycnonotus jocosus jocosus** (Linn.).

*Lanius jocosus* Linn., Syst. Nat. 10th. ed. 1758, p. 95: China.

*Distr.*—Extra-limital.]

**Pycnonotus jocosus erythrotis** (Bp.).<sup>1</sup>

*Ixos erythrotis* Bonaparte, Consp. Gen. Avium, 1850, p. 265: Java, error=Tavoy.

*Distr.*—Malay Peninsula.

Sumatra (? introduced).

Java (? introduced).

## Family TIMALIIDÆ.

### Genus EUPETES Temminck.

**Eupetes macrocerus** Temm.

Rail-Babbler.

**Eupetes macrocerus macrocerus** Temm.

*Eupetes macrocerus* Temminck, Pl. Col. 516, 1831: Padang, West Sumatra.

*Eupetes macrocerus griseiventris* Stuart Baker, Bull. Brit. Orn. Cl. xxxviii, 1917, p. 8: Tung Song, Peninsular Siam.

*Distr.*—Malay Peninsula.

Sumatra.

North Natuna Islands.

**Eupetes macrocerus borneensis** Rob. and Kloss.

*Eupetes macrocerus borneensis* Robinson and Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 204: Samarahan, South Sarawak.

*Eupetes macrocerus subrufus* Hach., Bull. B. O. Cl., xlii, 1926, p. 54: Mt. Dulit, Sarawak.

*Eupetes macrocerus subrufus* Hach., Bull. B. O. Cl., xlvii, 1926, p. 54: Mt. Dulit, Sarawak.

*Distr.*—Borneo.

<sup>1</sup> Records from the south of the Malay Peninsula, Sumatra and Java are no doubt founded on cage birds and it is very doubtful if the species naturally ranges further south than about the latitude of Kelantan.

Genus **GARRULAX** Lesson.<sup>1</sup>**Garrulax erythrocephalus** (Vig.). Red-headed Laughing-Thrush.[**Garrulax erythrocephalus erythrocephalus** (Vig.).*Cinclosoma erythrocephalum* Vigors, Proc. Zool. Soc. for 1831, 1832, p. 171: Simla.*Distr.*—Extra-limital.]**Garrulax erythrocephalus peninsulæ** (Sharpe).*Trochalopteryx peninsulæ* Sharpe, Proc. Zool. Soc. 1887, p. 436, pl. 37: Mt. Ijau, Perak, Malay States.*Distr.*—Malay Peninsula.**Garrulax leucolophus** (Hardw.). White-crested Laughing-Thrush.[**Garrulax leucolophus leucolophus** (Hardw.).*Corvus leucolophus* Hardwicke, Trans. Linn. Soc. xi, 1815, p. 208, pl. 15: Kumaun.*Distr.*—Extra-limital.]**Garrulax leucolophus bicolor** Hartl.*Garrulax bicolor* Hartlaub, Rev. Mag. Zool. 1844, p. 402: Sumatra.*Distr.*—Sumatra.**Garrulax rufifrons** Less.

Plain-brown Laughing-Thrush.

**Garrulax rufifrons rufifrons** Less.*Garrulax rufifrons* Lesson in Bélanger, Voy. Inde, Zool. 1834, p. 26, tab. 5: West Java.*Distr.*—Java (west).**Garrulax rufifrons slamatensis** Siebers.*Garrulax rufifrons slamatensis* Siebers, Treubia, xi, 1929, p. 150: Mt. Slamet, Mid Java.*Distr.*—Java (Central).**Garrulax palliatus** (Bp.).

Grey-and-brown Laughing-Thrush.

**Garrulax palliatus palliatus** (Bp.).*Ianthocincla palliata* Bonaparte, Consp. Gen. Avium i, 1850, p. 371: Sumatra.*Distr.*—Sumatra.**Garrulax palliatus schistochlamys** Sharpe.*Garrulax schistochlamys* Sharpe, Ibis, 1888, p. 479: Mt. Kinabalu, North Borneo.*Distr.*—Borneo.<sup>1</sup> Revisions: Meinertz., Ibis, 1928, p. 507; Berlioz, Rev. Hist. Nat. xi, 1930, p. 1.

Genus **MELANOCICHLA** Sharpe.**Melanocichla lugubris** (S. Müll.). Black Babbling-Thrush.**Melanocichla lugubris lugubris** (S. Müll.).*Ianthocincla lugubris* Sal. Müller, Tijds. Nat. Ges. Phys. 1835, p. 344, pl. 5, fig. 2: West Sumatra.*Melanocichla peninsularis* Sharpe, Proc. Zool. Soc. 1888, p. 274: Mt. Batu Puteh, Perak, Malay States.*Distr.*—Malay States.  
Sumatra.**Melanocichla lugubris calvus** (Sharpe).<sup>1</sup>*Allocotops calvus* Sharpe, Ibis, 1888, p. 389: Mt. Kinabalu, North Borneo.*Distr.*—Borneo.Genus **RHINOCICHLA** Sharpe.**Rhinocichla mitrata** (S. Müll.). Chestnut-capped Babbling-Thrush.**Rhinocichla mitrata mitrata** (S. Müll.).*Timalia mitrata* Sal. Müller, Tijds. Nat. Ges. Phys. 1835, p. 345, pl. 5, fig. 3: Sumatra.*Garrulax vittatus* de Filippi, Mus. Mediol. Anim. Vert. 1847, p. 31: Sumatra (*restr.*).*Distr.*—Sumatra.**Rhinocichla mitrata major** Rob. and Kloss.*Rhinocichla mitrata major* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 16: Mt. Ijau, Larut Hills, Perak.*Distr.*—Malay States.**Rhinocichla mitrata treacheri** (Sharpe).*Ianthocincla treacheri* Sharpe, Proc. Zool. Soc. 1879, p. 248, pl. 23: Mt. Kinabalu, North Borneo.*Distr.*—Borneo (north).**Rhinocichla mitrata damnata** Harr. and Hartley.*Rhinocichla mitrata damnata* Harrison and Hartley, Bull. Brit. Orn. Cl. liv, 1934, p. 154: Mt. Dulit, Sarawak, Borneo.*Distr.*—Borneo (part).

<sup>1</sup> The genus *Allocotops* Sharpe was made for *calvus* and the bird is often quoted as the monotypic representative of a highly specialized Bornean genus. The above action in reducing it to the rank of a subspecies may therefore be regarded as drastic, but I think it is the right one. I have noted *incipient baldness* in *lugubris* from the Malay Peninsula.

Genus **POMATORHINUS** Horsfield.

**Pomatorhinus montanus** Horsf. Chestnut-backed Scimitar-Babbler.

**Pomatorhinus montanus montanus** Horsf.

*Pomatorhinus montanus* Horsfield, Trans. Linn. Soc. xiii, 1821,  
p. 165: West Java.

*Distr.*—Java (not east).

**Pomatorhinus montanus ottolanderi** Rob.

*Pomatorhinus montanus ottolanderi* Robinson, Journ. Fed. Mal.  
States Mus. vii, 1918, p. 235: Idjen Massif, East Java.

*Distr.*—Java (east); Bali.

**Pomatorhinus montanus bornensis** Cab.

*Pomatorhinus bornensis* Cabanis, Mus. Heine, i, 1850, p. 84:  
Borneo.

*Distr.*—Borneo.

**Pomatorhinus montanus occidentalis** Rob. and Kloss.

*Pomatorhinus montanus occidentalis* Robinson and Kloss, Journ.  
Fed. Mal. States Mus. xi, 1923, p. 51: Selangor, Malay States.

*Distr.*—Malay States.  
Sumatra.

**Pomatorhinus schisticeps** Hodgs. Brown-backed Scimitar-Babbler.

[**Pomatorhinus schisticeps schisticeps** Hodgs.

*Pomatorhinus schisticeps* Hodgson, Asiat. Res. xix, 1836, p. 181:  
Nepal.

*Distr.*—Extra-limital.]

**Pomatorhinus schisticeps fastidiosus** Hart.

*Pomatorhinus schisticeps fastidiosus* Hartert, Bull. Brit. Orn. Cl.  
xxxvi, 1916, p. 81: Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Pomatorhinus hypoleucos** (Blyth). Large Scimitar-Babbler.

[**Pomatorhinus hypoleucos hypoleucos** (Blyth).

*Orthorhinus hypoleucos* Blyth, Journ. Asiat. Soc. Beng. xiii, 1844,  
p. 371: Arakan.

*Distr.*—Extra-limital.]

**Pomatorhinus hypoleucos wrayi** Sharpe.

*Pomatorhinus wrayi* Sharpe, Proc. Zool. Soc. 1887, p. 437: Mt.  
Ijau, Larut Hills, Perak.

*Distr.*—Malay States.

Genus **TIMALIA** Horsfield.

**Timalia pileata** Horsf. Red-capped Babbler.

**Timalia pileata pileata** Horsf.

*Timalia pileata* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 151 :  
Java.

*Distr.*—Java (not east).

**Timalia pileata intermedia** Kinn.

*Timalia pileata intermedia* Kinnear, Bull. Brit. Orn. Cl. xlv, 1924,  
p. 9 : Taunghoo, Burma.

*Distr.*—Peninsular Siam.<sup>1</sup>

Genus **GAMPSORHYNCHUS** Blyth.

**Gampsorhynchus rufulus** Blyth. White-headed Babbler.

[**Gampsorhynchus rufulus rufulus** Blyth.

*Gampsorhynchus rufulus* Blyth, Journ. Asiat. Soc. Bengal, xiii,  
1844, p. 371 : Darjeeling.

*Distr.*—Extra-limital.]

**Gampsorhynchus rufulus saturator** Sharpe.

*Gampsorhynchus saturator* Sharpe, Proc. Zool. Soc. 1888, p. 273 :  
Mt. Batu Puteh, Perak, Malay States.

*Distr.*—Malay States.

Genus **ANDROPHILUS** Sharpe.

**Androphilus accentor** Sharpe. Friendly Babbler.

*Androphilus accentor* Sharpe, Ibis, 1888, p. 390 : Mt. Kinabalu,  
North Borneo.

*Distr.*—Borneo.

Genus **PELLORNEUM** Swainson.

**Pellorneum ruficeps** Swains. Striped Babbler.

[**Pellorneum ruficeps ruficeps** Swains.

*Pellorneum ruficeps* Swainson, Fauna Boreal. Amer. 1832, p. 487 :  
India.

*Distr.*—Extra-limital.]

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<sup>1</sup> The presence of this bird in the Malay Peninsula south of the Isthmus of Kra needs confirmation.

**Pellorneum ruficeps subochraceum** Swinh.

*Pellorneum subochraceum* Swinhoe, Ann. Mag. Nat. Hist. (4) vii,  
1871, p. 257: Tenasserim.

*Distr.*—Malay Peninsula.

**Pellorneum capistratum** (Temm.). Black-capped Babbler.**Pellorneum capistratum capistratum** (Temm.).

*Myiothera capistrata* Temminck, Pl. Col. 185, 1823: Java.

*Distr.*—Java.

**Pellorneum capistratum nigrocapitatum** (Eyton).

*Brachypteryx nigrocapitata* Eyton, Proc. Zool. Soc. 1839, p. 103:  
Malacca.

*Bessethera barbata* Cab., Mus. Hein. i, 1850, p. 76: Malacca (*Oberh.*  
1922.).

*Distr.*—Malay Peninsula; Billiton.

North Natuna Islands.

**Pellorneum capistratum nyctilampe** (Oberh.).<sup>1</sup>

*Drymocataphus nigrocapitatus nyctilampis* Oberholser, Smiths.  
Misc. Coll. lxxiv, 2, 1922, p. 10: Banka.

*Distr.*—Sumatra; Banka.

**Pellorneum capistratum capistratoides** (Strickl.).

*Goldana capistratoides* Strickland, Contr. Orn. 1849, p. 128, pl. 36:  
South Borneo.

*Distr.*—Borneo (not north).

**Pellorneum capistratum morrelli** Chas. and Kloss.

*Pellorneum capistratum morrelli* Chasen and Kloss, Journ. f. Ornith.  
1929, Bd. 2, p. 118: Kudat, North Borneo.

*Distr.*—Borneo (north); Banguet Island, North Borneo.

**Pellorneum tickelli** Blyth. Tickell's Babbler.**Pellorneum tickelli tickelli** Blyth.

*Pellorneum tickelli* Blyth, Journ. Asiat. Soc. Bengal, xxviii, 1859,  
p. 414: Amherst, Tenasserim.

*Distr.*—Peninsular Siam (north).

**Pellorneum tickelli australe** (Rob. and Kloss).

*Drymocataphus tickelli australis* Robinson and Kloss, Journ. Fed.  
Mal. States Mus. x, 1921, p. 205: Selangor, Malay States.

*Distr.*—Malay Peninsula.

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<sup>1</sup> A rather doubtful race. The skins fade very quickly in the tropics, but some birds from Sumatra certainly seem darker than specimens from the Malay Peninsula.



Genus **MALACOCINCLA** Blyth.<sup>1</sup>**Malacocincla abbotti**<sup>2</sup> Blyth. Abbott's Brown Babbler.**Malacocincla abbotti abbotti** Blyth.*Malacocincla Abbotti* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 601: Arakan.*Distr.*—Malay Peninsula (south to about Penang).**Malacocincla abbotti olivacea** (Strick.).*Malacopteron olivaceum* Strickland, Proc. Zool. Soc. for 1846, 1847, p. 102: Malacca.*Distr.*—Malay Peninsula (south from Penang).  
Sumatra.**Malacocincla abbotti büttikoferi** Finsch.*Malacocincla Büttikoferi* Finsch, Notes Leyd. Mus. xxii, 1901, p. 218: South-east Borneo.*Distr.*—Borneo.**\*Malacocincla abbotti eritora** Oberh.*Malacocincla abbotti eritora* Oberholser, Smiths. Misc. Coll. lxxiv, 2, 1922, p. 11: Billiton Island.*Distr.*—Billiton Island.**Malacocincla abbotti baweana** Oberh.*Malacocincla abbotti baweana* Oberholser, Proc. U.S. Nat. Mus. lii, 1917, p. 194: Bawean Island.*Distr.*—Bawean Island, Java Sea.**\*Malacocincla abbotti sirensis** Oberh.*Malacocincla abbotti sirensis* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 195:*Distr.*—Mata Siri Island, Java Sea.**Malacocincla sepiaria** (Horsf.).<sup>3</sup> Horsfield's Brown Babbler.**Malacocincla sepiaria sepiaria** (Horsf.).*Brachypteryx sepiaria* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 158: West Java.*Distr.*—Java (not east).

<sup>1</sup> A form of *Malacocincla* is said to occur in the Rhio Archipelago. It is most likely *M. a. olivacea* (Strick.). Short revision: Chas. and Kl., Bull. Raffles Mus. 4, 1930, p. 71.

<sup>2</sup> Several names (*hypoides*, *concreta*, *pyca*, *schwaneri*) originally applied to specimens in the Leyden Museum, refer either to this species, or to *M. sepiaria*. Fortunately they seem to be *nomina nuda* in all citations.

<sup>3</sup> This distinct species is confused with *M. abbotti* in Faun. Brit. Ind. (2nd ed.).

**Malacocincla sepiaria minor** (Meyer).

*Turdinus sepiaria* var. *minor* A. B. Meyer, Zeitschr. f. gesamte Orn. i, 1884, p. 210: East Java.

*Distr.*—Java (east); Bali.

**Malacocincla sepiaria tardinata** Hart.

*Malacocincla sepiaria tardinata* Hartert, Bull. Brit. Orn. Cl. xxxvi, 1915, p. 35: Mt. Tahan, Malay States.

*Distr.*—Malay Peninsula.  
Sumatra (north-east).

**Malacocincla sepiaria barussana** Rob. and Kloss.

*Malacocincla sepiaria barussana* Robinson and Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 205: Korinchi, West Sumatra.

*Distr.*—Sumatra (west and south).

**Malacocincla sepiaria rufiventris** Salvad.

*Malacocincla rufiventris* Salvadori, Ann. Mus. Civ. Gen. v, 1874, p. 229: Sarawak.

*Turdinus tephrops* Sharpe, Bull. Brit. Orn. Cl. i, 1893, p. 54: Mt. Kalulong, Sarawak.

*Distr.*—Borneo (Sarawak and Dutch Borneo).

**Malacocincla sepiaria harterti** Chas. and Kloss.

*Malacocincla sepiaria harterti* Chasen and Kloss, Journ. f. Ornith. 1929, Band 2, p. 116: near Sandakan, British North Borneo.

*Distr.*—Borneo (north).

**Malacocincla perspicillatus** (Bp.).<sup>1</sup> Large Ashy-throated Babbler.

*Cacopitta perspicillata* Bonaparte, Consp. Gen. Avium, i, 1850, p. 257: Java error=Borneo (*Büttikofer*, 1895).

*Distr.*—Borneo.

Genus **AETHOSTOMA** Sharpe.

**Aethostoma rostratum** (Blyth).

Blyth's Babbler.

**Aethostoma rostratum rostratum** (Blyth).

*Trichastoma rostratum* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 795: Singapore Island.

*Brachypteryx buxtoni* Walden, Proc. Zool. Soc. 1877, p. 367: Lampongs, Sumatra.

*Ptilocichla leucogastra* Davison, Ibis, 1892, p. 100: Pahang, Malay Peninsula.

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<sup>1</sup> A most mysterious bird of which little is known.

- Aethostoma rostrata aethalea* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922,  
p. 12: Karimon Anak Island, Rhio Archipelago.  
*Aethostoma rostrata paganica* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922,  
p. 12: Upper Siak River, East Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Billiton.

***Aethostoma rostratum macropteron* (Salvad.).**

*Brachypteryx macroptera* Salvadori, Atti. R. Acad. Sci. Torino, iii,  
1868, p. 528: Sarawak.

*Aethostoma witmeri* Sharpe, Handlist of Birds, iv, 1903, p. 358: Sarawak.

*Distr.*—Borneo; Banguay Island, North Borneo.

***Aethostoma pyrrhogenys* (Temm.).**

Temmick's Babbler.

***Aethostoma pyrrhogenys pyrrhogenys* (Temm.).**

*Myiothera pyrrhogenys* Temminck, Pl. Col. 442, 1827: West Java.

*Distr.*—Java (not east).

***Aethostoma pyrrhogenys besuki* Kloss.**

*Aethostoma pyrrhogenys besuki* Kloss, Treubia, 13, 1931, p. 346:  
Tamansari, East Java.

*Distr.*—Java (east).

***Aethostoma pyrrhogenys büttikoferi* (Vorderm.).**

*Trichostoma Büttikoferi* Vorderman, Nat. Tijds. Ned. Ind. 1892,  
p. 230: Lampongs, South Sumatra.

*Distr.*—Sumatra.

***Aethostoma pyrrhogenys canicapillum* (Sharpe).**

*Turdinus canicapillus* Sharpe, Ibis, 1887, p. 450: Mt. Kinabalu,  
North Borneo. ...

*Distr.*—Mt. Kinabalu, North Borneo.

***Aethostoma pyrrhogenys longstaffi* (Harr. and Hart.).**

*Malacocinclla canicapillus longstaffi* Harrison and Hartley, Bull.  
B.O.C. liv, 1934, p. 152: Mt. Dulit, Sarawak.

*Distr.*—Sarawak (not west).

***Aethostoma pyrrhogenys erythrota* (Sharpe).**

*Malacopteron erythrota* Sharpe, Cat. Bds. Brit. Mus. vii, 1883, p.  
567, pl. 13, fig. 2: "Borneo".

*Distr.*—Sarawak (west).<sup>1</sup>

<sup>1</sup> On the mountains of West Sarawak (Poi and Penrissen) there is a race of *A. pyrrhogenys* very variable in general colour, some specimens being as pale as *A. p. canicapilla* and others as dark as *A. p. longstaffi*, but with the forehead and crown paler than in these two races. A faded specimen of this race is rather more rufous above than the old type of *erythrota*, but the birds are sufficiently alike to justify the adoption of the name as proposed above.

Genus **TURDINUS** Blyth.

**Turdinus macrodactylus** (Strickl.). Large-footed Babbler

**Turdinus macrodactylus macrodactylus** (Strickl.).

*Malacopteron macrodactylum* Strickland, Ann. Mag. Nat. Hist. xiii, 1844, p. 417: Malacca.

*Brachypteryx albogularis* Hartl., Rev. Mag. Zool. 1844, p. 401: Malacca.  
Distr.—Malay States.

**Turdinus macrodactylus bakeri** Hach.

*Turdinus macrodactylus bakeri* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 54: Trang, Peninsular Siam.

Distr.—Peninsular Siam.

**Turdinus macrodactylus lepidopleurus** (Bp.).

*Cacopitta lepidopleura* Bonaparte, Consp. Gen. Avium i, 1850, p. 257: Java.

Distr.—Java.<sup>1</sup>

**Turdinus macrodactylus rufipectus** Salvad.

*Turdinus rufipectus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 224: Sumatra.

Distr.—Sumatra.

**Turdinus macrodactylus atrigularis** (Bp.).

*Cacopitta atrigularis* Bonaparte, Consp. Gen. Av. i, 1850, p. 257: Borneo.

Distr.—Borneo.

**Turdinus marmoratus** S. Müll. Müller's Babbler.

*Turdinus marmoratus* Wardlaw-Ramsay, Proc. Zool. Soc. 1880, p. 15: West Sumatra.

*Myiothera loricata* Müller (nec Licht.), Tijds. Nat. Ges. Phys. 1835, p. 348, pl. v, fig. 5: West Sumatra.

Distr.—Malay States.  
Sumatra.

Genus **ERYTHROCICHLA** Sharpe.

**Erythrocichla bicolor** (Less.). Ferruginous Babbler.

*Brachypteryx bicolor* Lesson, Rev. Zool. 1839, p. 138: Sumatra.

*Malacopteron ferruginosum* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 383: Singapore Island.

*Napothera rubicauda* Bp., Consp. Gen. Av. i, 1850, p. 359: Sumatra.

*Erythrocichla bicolor whiteheadi* Hartl., Bull. B. O. Cl. xxxvi, 1915, p. 36: British North Borneo.

Distr.—Malay Peninsula.

Sumatra.

Borneo.

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<sup>1</sup> Has been recorded from Sumatra but we think in error.

Genus **MALACOPTERON**<sup>1</sup> Eyton.

**Malacopteron magna** Eyton. Larger Red-headed Tree-Babbler.

**Malacopteron magnum magnum** Eyton.

*Malacopteron magnum* Eyton, Proc. Zool. Soc. 1839, p. 103 : Malacca.

*Malacopteron majus* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p. 461 : Malacca.

*Napothera pileata* Bp., Consp. Gen. Avium, 1850, p. 359 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Nias Island, West Sumatra.

Borneo (not north); North Natuna Islands.

**Malacopteron magnum saba** Chas. and Kloss.

*Malacopteron magnum saba* Chasen and Kloss, Bull. Raffles Mus. 4, 1930, p. 75 : Sandakan, British North Borneo.

*Distr.*—Borneo (north).

**Malacopteron cinereum** Eyton. Smaller Red-headed Tree-Babbler.

**Malacopteron cinereum cinereum** Eyton.

*Malacopteron cinereus* Eyton, Proc. Zool. Soc. 1839, p. 103 : Malacca.

*Napothera coronata* Bp., Consp. Gen. Avium, 1850, p. 358 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos.

Borneo.

**Malacopteron cinereum rufifrons** Cab.

*Malacopteron rufifrons* Cabanis, Mus. Heine, i, 1850, p. 65 : Java.

? *Timalia ruficapilla* Jacq. and Puch., Voy. Pôle Sud. Ois. iii, 1853, p. 89 : Pulau Laut, S. E. Borneo (? error).

? *Timalia squamifrons* Bp., Comptes Rend. xxxviii, 1854, p. 59 (ex Puch. MS).

*Distr.*—Java.<sup>2</sup>

**Malacopteron cinereum bungurens** Hart.

*Malacopteron cinereum bungurens* Hartert, Nov. Zool. i, 1894, p. 470 : Bungurun, North Natuna Islands.

*Distr.*—North Natuna Islands.

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<sup>1</sup> If *Malacopteron* is considered preoccupied by *Malacopterus* Serv. 1833 *Malacornis* Gistel, 1850 must be used. See Riley 1933.

<sup>2</sup> The occurrence of this form in Sumatra, or Borneo, is doubtful. The name *lepidoccephalus* seems to be *nom. nud.* in all citations.

**Malacopteron magnirostre** (Moore). Brown-headed Tree-Babbler.

**Malacopteron magnirostre magnirostre** (Moore).

*Alcippe magnirostris* Moore, Proc. Zool. Soc. for 1854, 1855, p. 277 : Malacca.

*Distr.*—Malay Peninsula; Tioman Island.

Sumatra; Lingga Archipelago; Mansalar Island, West Sumatra.

**Malacopteron magnirostre flavum** Chas. and Kloss.

*Malacopteron magnirostris flavum* Chasen and Kloss, Journ. Mal. Br. Roy. Asiat. Soc. vi, pt. 3, 1928, p. 58 : Siantan Island, Anamba Islands.

*Distr.*—Anamba Islands.

**Malacopteron magnirostre cinereocapillum** (Salvad.).

*Alcippe cinereocapilla* Salvadori, Atti. R. Accad. Sci. Torino iii, 1868, p. 530 : Sarawak, Borneo.

*Turdinus kalulonge* Sharpe, Bull. Brit. Orn. Cl. i, 1893, p. 54 : Mt. Kalulong, Sarawak.

*Distr.*—Borneo.

**Malacopteron affine** (Blyth).

Small Tree-Babbler.

**Malacopteron affine affine** (Blyth).

*Trichastoma affine* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 795 : Singapore Island.

*Napothera atricapilla* Bp., Consp. Gen. Avium. i, 1850, p. 359 : Sumatra.

*Alcippe cantori* Moore, Proc. Zool. Soc. 1854, p. 277 : Penang.

*Malacopteron melanocephalum* Davison, Ibis, 1892, p. 101 : Pahang.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

? Java.<sup>1</sup>

**\*Malacopteron affine notatum** Richm.

*Malacopteron notatum* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 120 : Bangkaru Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

### Genus **OPHRYDORNIS** Büttikofer.

**Ophrydornis albogularis** (Blyth).

White-throated Babbler.

**Ophrydornis albogularis albogularis** (Blyth).

*Setaria albigularis* Blyth, Journ. As. Soc. Bengal, xiii, 1844, p. 385 : Singapore Island.

*Distr.*—Malay States.

Sumatra.

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<sup>1</sup> The record for Java is unsatisfactory and needs confirmation.

**Ophrydornis albogularis moultoni** Rob. and Kloss.

*Ophrydornis albogularis moultoni* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1919, p. 17: Saribas, Sarawak, Borneo.

*Setaria albigularis leucogastra* Hach., Bull. Brit. Orn. Cl., xlvii, 1926, p. 54: Sarawak.

*Distr.*—Borneo.

Genus **PTILOCICHLA** Sharpe.**Ptilocichla leucogrammica**<sup>1</sup> (Bp.). Bornean Streaked Babbler.

*Cacopitta leucogrammica* Bonaparte, Consp. Gen. Avium, i, 1850, p. 257: Borneo.

*Distr.*—Borneo.

Genus **ANUROPSIS** Sharpe.**Anuropsis malaccensis** (Hartl.).<sup>2</sup> Hume's Short-wing.**Anuropsis malaccensis malaccensis** (Hartl.).

*Brachypteryx malaccensis* Hartlaub, Rev. Mag. Zool. 1844, p. 402: Malacca.

*Anuropsis malaccensis drymodrama* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922, p. 9: Mandau River, East Sumatra.

*Anuropsis malaccensis driophila* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922, p. 9: Trang, Peninsular Siam.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio and Lingga Archipelagos.

North Natuna Islands.

**\*Anuropsis malaccensis docima** Oberh.

*Anuropsis malaccensis docima* Oberholser, Smiths. Misc. Coll. lxxiv, 2, 1922, p. 10: Banka Island.

*Distr.*—Banka Island.

**Anuropsis malaccensis saturata** Rob. and Kloss.

*Anuropsis malaccensis saturata* Robinson and Kloss, Bull. Brit. Orn. Cl. xl, 1920, p. 68: Baram, Sarawak.

*Distr.*—Borneo (west); Billiton.

**Anuropsis malaccensis poliogenis** (Strickl.).

*Brachypteryx poliogenis* Strickland, in Jardine's Contr. Orn. ii, 1849, p. 93, pl. 31: Karau River, South-east Borneo.

*Anuropsis malaccensis sordidus* Chasen and Kloss, Journ. f. Orn. 1929, Bd. 2, p. 119: near Sandakan, North Borneo.

*Distr.*—Borneo (north and east).

<sup>1</sup> The only Malaysian representative of a Philippine group.

<sup>2</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 61.

**Anuroopsis malaccensis feriatus** Chas. and Kloss.

*Anuroopsis malaccensis feriatus* Chasen and Kloss, Nov. Zool. xxxvi, 1931, p. 279: Mt. Mulu, North Sarawak.

*Distr.*—Borneo (part).

\***Anuroopsis malaccensis exsanguis** Oberh.

*Anuroopsis malaccensis exsanguis* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 8: Tuanku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

\***Anuroopsis malaccensis nesitis** Oberh.

*Anuroopsis malaccensis nesitis* Oberholser, Smiths. Misc. Coll. lx, 7, 1912, p. 8: Tana Masa Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

Genus **NAPOTHERA** Gray.

**Napothera brevicaudata** (Blyth). Streaked Wren-Babbler.

[*Napothera brevicaudata brevicaudata* (Blyth).]

*Turdinus brevicaudatus* Blyth, Journ. Asiat. Soc. Bengal, xxiv, 1855, p. 272: Tenasserim.

*Distr.*—Extra-limital.]

**Napothera brevicaudata leucosticta** (Sharpe).

*Corythocichla leucosticta* Sharpe, Proc. Zool. Soc. 1887, p. 438: Larut Hills, Perak.

*Corythocichla brevicaudata herberti* Stuart Baker, Bull. Brit. Orn. Cl. xxxviii, 1917, p. 10: Tung Song, Peninsular Siam.

*Distr.*—Malay Peninsula; Tioman Island, east coast Malay Peninsula.

**Napothera brevicaudata crassa** (Sharpe).

*Corythocichla crassa* Sharpe, Ibis, 1888, p. 391: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Napothera epilepidota** (Temm.). Small Wren-Babbler.

**Napothera epilepidota epilepidota** (Temm.).

*Myiothera epilepidota* Temminck, Pl. Col. 448, 1827: Java (*Hartert*, 1902).

*Myiothera murina* Blyth, Ibis, 1865, p. 47: Java.

*Distr.*—Java.

**Napothera epilepidota diluta** (Rob. and Kloss).

*Turdinulus epilepidotus dilutus* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. No. 73, 1916, p. 276: Korinchi, Sumatra.

*Distr.*—Sumatra.



**Napothera epilepidota granti** (Richm.).

*Turdinulus granti* Richmond, Proc. U.S. Nat. Mus. xxii, 1900,  
p. 320: Trang, Peninsular Siam.

*Turdinulus humei* Hart., Nov. Zool. ix, 1902, p. 564: Mt. Tahan,  
Pahang.

*Distr.*—Malay Peninsula.

**Napothera epilepidota exsul** (Sharpe).

*Turdinulus exsul* Sharpe, Ibis, 1888, p. 479: Mt. Kinabalu, Borneo.

*Distr.*—Borneo.

Genus **RIMATOR** Blyth.**Rimator malacoptilus** Blyth.

Long-billed Wren-Babbler.

[**Rimator malacoptilus malacoptilus** Blyth.

*Rimator malacoptilus* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847,  
p. 154: Darjeeling.

*Distr.*—Extra-limital.]

**Rimator malacoptilus albostratus** Salv.

*Rimator albostratus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879,  
p. 224: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

Genus **ALCIPPE**<sup>1</sup> Blyth**Alcippe nipalensis** (Hodgs.).

Mountain Nun-Thrush.

[**Alcippe nipalensis nipalensis** (Hodgs.).

*Siva nipalensis* Hodgson, Indian Review, 1838, p. 89: Nepal.

*Distr.*—Extra-limital.]

**Alcippe nipalensis peracensis** Sharpe.

*Alcippe peracensis* Sharpe, Proc. Zool. Soc. 1887, p. 439: Perak.

*Distr.*—Malay States.

**Alcippe poioicephala** (Jerd.).

Indian Nun-Thrush.

[**Alcippe poioicephala poioicephala** (Jerd.).

*Thimalia poioicephala* Jerdon, Madras Journ. Lit. Sci. xiii, 1844,  
p. 169: Nilgiris.

*Distr.*—Extra-limital.]

**Alcippe poioicephala davisoni** Har.

*Alcippe phæocephala davisoni* Harington, Journ. Bombay Nat. Hist.  
Soc. xxiii, 1915, p. 453: Tavoy.

*Distr.*—Peninsular Siam.

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<sup>1</sup> For continued use of this name see Riley 1933.

**Alcippe poiocephala pyrrhoptera** (Bp.).

*Napothera pyrrhoptera* Bonaparte, Consp. Gen. Avium, i, 1850, p. 358: Java.

*Alcippe solitaria* Cab., Mus. Hein. i, 1850, p. 87: Sumatra error=Java.

*Alcippe dumetoria* Cab., Mus. Hein. i, 1850, p. 88: Java.

*Mixornis erythronota* Reichen., Journ. f. Orn. 1895, p. 356: Java.

Distr.—Java.

**Alcippe cinerea** Blyth.<sup>1</sup>

Nun-Thrush.

**Alcippe cinerea cinerea** Blyth.<sup>2</sup>

*Alcippe cinerea* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 384: Singapore Island.

? *Hyloterpe brunneicauda* Salvad., Ann. Mus. Civ. Gen. (1), xiv, 1879, p. 210: Padang, West Sumatra.

*Alcippornis brunneicauda eriphæa* Oberh., Smiths Misc. Coll. lxxiv, 2, 1922, p. 2: Borneo.

*Alcippornis brunneicauda eripolia* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 63: Bunguran Island, North Natuna Islands.

Distr.—Malay Peninsula.

Sumatra.

Borneo; North Natuna Islands.

**\*Alcippe cinerea hypocneca** Oberh.

*Alcippe cinerea hypocneca* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 8: Pinie Island, Batu Islands.

Distr.—Batu Islands, West Sumatra.

Genus **PSEUDOMINLA** Oates.

**Pseudominla castaneiceps** (Hodgs.).

Tit-Babbler.

[**Pseudominla castaneiceps castaneiceps** (Hodgs.).

*Minla castaneiceps* Hodgson, Ind. Review, 1838, p. 33: Nepal.

Distr.—Extra-limital.]

**Pseudominla castaneiceps soror** (Sharpe).

*Minla soror* Sharpe, Proc. Zool. Soc. 1887, p. 439, pl. 38, fig. 1: Mt. Ijau, Perak.

Distr.—Malay States.

<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 63.

<sup>2</sup> Blyth's name is, as Oberholser (1932) points out, a new combination of generic and specific terms, as a result of a mistaken identification and it is questionable whether it constitutes a new and valid designation for the species so misidentified.

Genus **STACHYRIS** Blyth

**Stachyris nigriceps** Blyth. Grey-throated Babbler.

[**Stachyris nigriceps nigriceps** Blyth.

*Stachyris nigriceps* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 378 : Nepal.

*Distr.*—Extra-limital.]

**Stachyris nigriceps davisoni** Sharpe.

*Stachyris davisoni* Sharpe, Bull. Brit. Orn. Cl. i, 1892, p. 7 : Pahang.

*Stachyris nigriceps dipora* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922, p. 7 : Trang, Peninsular Siam.

*Stachyris natunensis* Hart., Nov. Zool. i, 1894, p. 470 : Bunguran Island, North Natuna Islands.

*Distr.*—Malay Peninsula.

North Natuna Islands.

**Stachyris nigriceps tionis** Rob. and Kloss.

*Stachyris nigriceps tionis* Robinson and Kloss, Journ. Fed. Malay States Mus. xiii, 1926, p. 211 : Tioman Island.

*Distr.*—Tioman Island, east coast, Malay Peninsula.

**Stachyris nigriceps borneensis** Sharpe.

*Stachyris borneensis* Sharpe, Ibis, 1887, p. 449 : Mt. Kinabalu, North Borneo.

*Stachyris larvata vermiculata*<sup>1</sup> Harrison and Hartley, Bull. B. O. Cl. liv, 1934, p. 153 : Mt. Dulit, Sarawak.

*Distr.*—Borneo (not West Sarawak).

**Stachyris nigriceps hartleyi** Chas.

*Stachyris nigriceps hartleyi* Chasen, Bull. Raffles Mus. 10, 1935, p. 43 : Mt. Poi, West Sarawak.

*Distr.*—West Sarawak (Mts. Penrissen and Poi), Borneo.

**Stachyris nigriceps larvata** (Bp.).

*Timalia larvata* Bonaparte, Consp. Gen. Avium, 1850, p. 217 : Sumatra.

*Distr.*—Sumatra; Lingga Archipelago.

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<sup>1</sup> Eleven topotypes of "*vermiculata*" seem absolutely inseparable from thirty new skins of *borneensis* from Mt. Kinabalu. As in other birds of this group new skins are slightly more olive and rusty in colour than older specimens, and very old skins are useless for comparison. Some dated 1899 are altered beyond all subspecific recognition.

**Stachyris poliocephala** (Temm.). Grey-headed Babbler.

**Stachyris poliocephala poliocephala** (Temm.).

*Timalia poliocephala* Temminck, Pl. Col. 593, fig. 2, 1836 :  
Bencoolen, West Sumatra.

*Stachyris poliocephala diluta* Robinson and Kloss, Ibis, 1918, p. 587 :  
Taiping, Perak, Malay States.

*Distr.*—Malay Peninsula.  
Sumatra (part).  
Borneo.

**Stachyris poliocephala pulla** Kloss.

*Stachyris poliocephala pulla* Kloss, Treubia, xiii, 1931, p. 348 :  
Deli, North-east Sumatra.

*Distr.*—Sumatra (north-east).

**Stachyris grammiceps** (Temm.). Javan White-breasted Babbler.

*Myiothera grammiceps* Temminck, Pl. Col. 448, fig. 3, 1828 : West  
Java.

*Timalia grammicephala* Bp., Consp. Gen. Av. 1850, p. 217 : West Java.

*Distr.*—Java (west).

**Stachyris nigricollis** (Temm.). Black-necked Babbler.

**Stachyris nigricollis nigricollis** (Temm.).

*Timalia nigricollis* Temminck, Pl. Col. 594, fig. 2, 1836 : Borneo.

*Distr.*—Borneo.  
Sumatra.<sup>1</sup>

**Stachyris nigricollis erythronotus** (Blyth).

*Timalia erythronotus* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842,  
p. 793 : Singapore Island.

*Brachypteryx nigrogularis* Eyton, Ann. and Mag. Nat. Hist. xvi, 1845,  
p. 228 : Malacca.

*Distr.*—Malay Peninsula.

**Stachyris leucotis** (Strickl.). White-eared Babbler.

**Stachyris leucotis leucotis** (Strickl.).

*Timalia leucotis* Strickland, Contr. Orn. 1848, p. 63, pl. 12 :  
Malacca.

*Distr.*—Malay Peninsula.

**Stachyris leucotis goodsoni** Hart.

*Stachyris leucotis goodsoni* Hartert, Bull. Brit. Orn. Cl. xxxvi,  
1915, p. 7 : Mt. Mulu, Sarawak.

*Distr.*—Borneo.

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<sup>1</sup> Racial identity of the Sumatran form not absolutely certain.

**Stachyris maculata** (Temm.). Red-rumped Babbler.

**Stachyris maculata maculata** (Temm.).

*Timalia maculata* Temminck, Pl. Col. 593, fig. 1, 1836: Borneo.

*Distr.*—Borneo.

**Stachyris maculata pectoralis** Blyth.<sup>1</sup>

*Timalia pectoralis* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 793: Singapore Island.

*Malacopteron squamatum* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 228: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago.

\***Stachyris maculata banjakensis** Richm.

*Stachyris banjakensis* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 190: Tuanku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

\***Stachyris maculata hypopyrrha** Oberh.

*Stachyris maculata hypopyrrha* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 9: Pinie Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Stachyris striolata** (S. Müll.).

Spotted Babbler.

**Stachyris striolata striolata** (S. Müll.).

*Timalia striolata* Sal. Müller, Tijds. Nat. Gesch. Phys. 1838, p. 346: Padang Residencies, West Sumatra.

*Distr.*—Sumatra (west).

**Stachyris striolata umbrosa** (Kloss).

*Thringorhina striolata umbrosa* Kloss, Journ. Fed. Mal. States Mus. x, 1921, p. 212: Deli, North-east Sumatra.

*Distr.*—Sumatra (north-east).

**Stachyris striolata guttata** (Blyth).

*Turdinus guttatus* Blyth, Journ. Asiat. Soc. Bengal, xxviii, 1859, p. 414: Tenasserim.

*Distr.*—Peninsular Siam.

**Stachyris thoracica** (Temm.).

White-collared Babbler.

**Stachyris thoracica thoracica** (Temm.).

*Pitta thoracica* Temminck, Pl. Col. 76, 1822: West Java.

*Distr.*—Sumatra.

Java (west).

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<sup>1</sup> When birds from the Malay Peninsula and Borneo are compared, the differences are so slight that they are scarcely worth recognition, but specimens from the Rhio Archipelago and Sumatra average very dark on the ear-coverts. No exact topotypes from Singapore have been examined.

**Stachyris thoracica orientalis** Rob.

*Stachyris orientalis* Robinson, Journ. Fed. Mal. States Mus. vii, 1918, p. 236: Idjen Massif, East Java.

*Distr.*—Java (east).

**Stachyris chrysæa** Blyth.

Golden-headed Babber.

**[Stachyris chrysæa chrysæa** Blyth.

*Stachyris chrysæa* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 379: Nepal.

*Distr.*—Extra-limital.]

**Stachyris chrysæa chrysops** Richm.

*Stachyris chrysops* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 157: Trang, Peninsular Siam.

*Distr.*—Malay Peninsula.

**Stachyris chrysæa frigida** (Hartl.).<sup>1</sup>

*Zosterops (Heleia) frigida* Hartlaub, Journ. f. Ornith. 1865, p. 27: West Sumatra.

*Stachyris bocagei* Salvad., Ann. Mus. Civ. Gen. xiv, 1879, p. 223: Padang Highlands, West Sumatra.

*Distr.*—Sumatra.

Genus **CYANODERMA** Salvadori.**Cyanoderma erythroptera** (Blyth).

Red-winged Babbler.

**Cyanoderma erythroptera erythroptera** (Blyth).<sup>2</sup>

*Timalia erythroptera* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 794: Singapore Island.

*Brachypteryx acutirostris* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 228: Malacca.

*Timalia pyrrhoptera* Bp., Consp. Gen. Av. i, 1850, p. 217: nom. nov.

*Cyanoderma erythroptera neocara* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 66: Bunguran Island, North Natuna Islands.

*Distr.*—Malay Peninsula; Tioman Island.

Sumatra (southern half).

North Natuna Islands.

**Cyanoderma erythroptera pyrrhophæa** (Hartl.).

*Timalia pyrrhophæa* Hartlaub, Rev. Mag. Zool. 1844, p. 402: Sumatra (Rob. and Kloss, 1920).

*Cyanoderma erythroptera eripella* Oberh., Smiths. Misc. Coll. lxxiv, 1922, p. 2: Upper Siuk River, East Sumatra.

*Distr.*—Sumatra (northern half).

<sup>2</sup> *Cyanoderma e. sordida* Baker, Bull. B. O. Cl. xxxviii, 1917, p. 10 from Patiyyu, S. W. Siam appears inseparable.

<sup>1</sup> Cf. Delacour, Bull. B. O. Cl. lv, 1934, p. 121.

**\*Cyanoderma erythroptera apega** Oberh.

*Cyanoderma erythroptera apega* Oberh., Smiths. Misc. Coll. lxxiv, 2, 1922, p. 8: Banka Island.

*Distr.*—Banka; Billiton.

**Cyanoderma erythroptera bicolor** (Blyth).

*Timalia bicolor* Blyth, Ibis, 1865, p. 46: Labuan.

*Cyanoderma labuanensis* Collin and Hartert, Nov. Zool. xxxiv, 1927, p. 51: nom. nov.<sup>1</sup>

*Distr.*—Borneo (not south); Banguay Island, North Borneo.

**Cyanoderma erythroptera rufa** Chas. and Kloss.

*Cyanoderma erythroptera rufa* Chasen and Kloss, Bull. Brit. Orn. Cl. xlviii, 1927, p. 47: Sampit, South Borneo.

*Distr.*—Borneo (south).

**\*Cyanoderma erythroptera fulviventris** Richm.

*Cyanoderma fulviventris* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 507: Tuangku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**\*Cyanoderma erythroptera pella** Oberh.

*Cyanoderma erythropteron pellum* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 9: Tana Masa Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Cyanoderma melanothorax** (Temm.). Pearl-cheeked Babbler.**Cyanoderma melanothorax melanothorax** (Temm.).<sup>2</sup>

*Myiothera melanothorax* Temminck, Pl. Col. 185, 1823: Mt. Gede, West Java.

*Distr.*—Java (Mts. Gedeh and Pangerano, West Java).

**Cyanoderma melanothorax albigula** Stres.

*Cyanoderma melanothorax albigula* Stresemann, Orn. Monatsbr. xxxviii, 1930, p. 148: Mt. Papandajan, West Java.

*Distr.*—Java (Mt. Papandajan, West Java).

**Cyanoderma melanothorax mendeni** Naum.

*Cyanoderma melanothorax mendeni* Naumann, Bull. Brit. Orn. Cl. lv, 1935, p. 137: Indromaju, north coast of West-central Java.

*Distr.*—West-central Java.

<sup>1</sup> An unnecessary renaming as Lafresnaye's combination is French and not binomial.

<sup>2</sup> I cannot trace *Timalia poliopsis* Vord., 1886, given by Kuroda (1933) as a synonym.

**Cyanoderma melanothorax intermedia** (Rob.).

*Stachyris melanothorax intermedia* Robinson, Journ. Fed. Malay States Mus. vii, 1918, p. 236: Mt. Idjen, East Java.

*Distr.*—Java (east).

**Cyanoderma melanothorax baliensis** Hart.

*Cyanoderma melanothorax baliensis* Hartert, Bull. Brit. Orn. Cl. xxxvi, 1915, p. 2: Bali.

*Distr.*—Bali.

**Cyanoderma rufifrons** (Hume).

Hume's Babbler.

[*Cyanoderma rufifrons rufifrons* (Hume).

*Stachyris rufifrons* Hume, Stray Feathers, i, 1873, p. 479: Pegu.

*Distr.*—Extra-limital.]<sup>1</sup>

**Cyanoderma rufifrons poliogaster** (Hume).

*Stachyris poliogaster* Hume, Stray Feathers, ix, 1880, p. 116: Johore, Malay Peninsula.

*Distr.*—Malay States.

Sumatra.

Borneo.

Genus **MIXORNIS** Blyth.

**Mixornis gularis** (Horsf.).<sup>2</sup>

Yellow-breasted Babbler.

**Mixornis gularis gularis** (Horsf.).

*Timalia gularis* Horsfield, Zool. Res. in Java, 1822: Sumatra.

*Prinia pileata* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 204: Malacca.

*Mixornis sumatrana* Bp., Consp. Gen. Av. 1850, p. 217: Sumatra.

*Distr.*—Malay Peninsula (north to Patani).

Sumatra; Rhio and Lingga Archipelagos.

**Mixornis gularis connectens** Kloss.

*Mixornis rubricapilla connectens* Kloss, Ibis, 1918, p. 207: Peninsular Siam, Lat. 10° N.

*Mixornis gularis chersonesophila* Oberholser, Smiths. Misc. Coll. lxxiv, 2, 1922, p. 3: Trang, Peninsular Siam.

*Distr.*—Malay Peninsula (south to about Penang).

**Mixornis gularis zophera** Oberh.

*Mixornis pileata zophera* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 49: Telaga Island, Anamba Islands.

*Distr.*—Anamba Islands.

<sup>1</sup> This race, or *S. r. obscura* Baker (if distinct) from Peninsular Siam, Lat 11° N. may occur in Malaysia.

<sup>2</sup> Cf. Rob., Journ. F.M.S. Mus. vii, 1917, p. 176; Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 71; Delacour, Bull. Brit. Orn. Cl. lv, 1935, p. 99.



**Mixornis gularis everetti** Hart.

*Mixornis everetti* Hartert, Nov. Zool. i, 1894, p. 472: Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**\*Mixornis gularis zaperissa** Oberh.

*Mixornis rubricapilla zaperissa* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 68: Lingung Island, North Natuna Islands.

*Distr.*—Laut, Kombeh and Lingung Islands, North Natuna Islands.

**\*Mixornis gularis zarhabdota** Oberh.

*Mixornis pileata zarhabdota* Oberholser, Smiths. Misc. Coll. 1x, 1912, p. 9: Bangkaru Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**\*Mixornis pileata zaptera** Oberh.

*Mixornis pileata zaptera* Oberh., Smiths. Misc. Coll. 1x, No. 7, 1912, p. 9: Tana Masa Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Mixornis gularis bornensis** Bp.

*Mixornis bornensis* Bonaparte, Consp. Gen. Avium, 1850, p. 217: Borneo.

*Mixornis similis* Blyth, Ibis, 1865, p. 47: Borneo.

*Distr.*—Borneo (not north).

**Mixornis gularis montana** Sharpe.

*Mixornis montana* Sharpe, Ibis, 1887, p. 448: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (north).<sup>2</sup>

**Mixornis gularis argentea** Chas. and Kloss.

*Mixornis gularis argentea* Chasen and Kloss, Bull. Raffles Mus. 4, 1930, p. 82: Mallewallé Island, North Borneo.

*Distr.*—North Bornean Islands.

**\*Mixornis gularis pontia** Oberh.

*Mixornis bornensis pontia* Oberholser, Smiths. Misc. Coll. lxxiv, 2, 1922, p. 6: Pulau Laut, South-east Borneo.

*Distr.*—Pulau Laut, South-east Borneo.

<sup>1</sup> The white throat shows that this is *bornensis*, not *gularis*.

<sup>2</sup> Not really a mountain form. The type came from an altitude of about 1,000 feet and the subspecies occurs in the lowlands of North Borneo, near the sea.

**\*Mixornis gularis ruficoma** Oberh.

*Mixornis bornensis ruficoma* Oberholser, Smiths. Misc. Coll. lxxiv, 2, 1922, p. 6: Banka Island.

*Distr.*—Banka Island; Billiton.

**Mixornis gularis javanica** Cab.

*Mixornis javanica* Cabanis, Mus. Hein. i, 1850, p. 77, footnote: Java.

*Distr.*—Java.

**Mixornis flavicollis** Bp. Bonaparte's Yellow-breasted Babbler.

**Mixornis flavicollis flavicollis** Bp.

*Mixornis flavicollis* Bonaparte, Consp. Gen. Avium, 1850, p. 217: Java.

*Distr.*—Java.

**Mixornis flavicollis prillwitzii** Hart.

*Mixornis prillwitzii* Hartert, Bull. Brit. Orn. Cl. xii, 1901, p. 32: Kangean Island, Java Sea.

*Distr.*—Kangean Islands.

Genus **KENOPIA** Blyth.

**Kenopia striata** (Blyth). Striped Babbler.

*Timalia striata* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 793: Singapore Island.

*Brachypteryx maculatus* Eyton, Ann. Mag. Nat. Hist. xvi, 1845, p. 228: Malacca.

*Turdirostris leucostigma* Bp., Consp. Gen. Avium, 1850, p. 218: Borneo (nom. nud.).

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Genus **MACRONUS** Jardine and Selby.

**Macronus ptilosus** Jard. and Selb. Fluffy-backed Babbler.

**Macronus ptilosus ptilosus** Jard. and Selb.

*Macronus ptilosus* Jardine and Selby, Ill. Orn. 1835, pl. 150: Malacca.

*Timalia trichorrhos* Temm., Pl. Col. 594, 1836: Sumatra (*Hartert, 1915*).

*Distr.*—Malay Peninsula.

Sumatra; Banka.

**Macronus ptilosus reclusus** Hart.

*Macronus ptilosus reclusus* Hartert, Bull. Brit. Orn. Cl. xxxvi, 1915, p. 36: Sarawak.

*Distr.*—Borneo; Billiton.

Genus **HETEROPHASIA** Blyth.

**Heterophasia picaoides** (Hodgs.). Long-tailed Sibia.

[**Heterophasia picaoides picaoides** (Hodgs.).

*Sibia Picaoides* (sic) Hodgson, Journ. Asiat. Soc. Bengal, viii, 1839,  
p. 38: Nepal.

*Distr.*—Extra-limital.]

**Heterophasia picaoides wrayi** (O.-Grant).

*Sibia wrayi* Ogilvie-Grant, Bull. Brit. Orn. Cl. xxv, 1910, p. 98:  
Batang Padang Mountains, Perak.

*Distr.*—Malay States.

**Heterophasia picaoides simillima** Salvad.

*Heterophasia simillima* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879,  
p. 232: Padang Highlands, West Sumatra.

*Distr.*—Sumatra.

Genus **STAPHIDA** Swinhoe.

**Staphida castaniceps** (Horsf. and Moore). Chestnut-headed Babbler.

[**Staphida castaniceps castaniceps** (Horsf. and Moore).

*Ixulus castaniceps* Horsfield and Moore, Cat. Birds Mus. East Ind.  
Coy. i, 1854, p. 411: Afghanistan error = Khasia Hills.

*Distr.*—Extra-limital.]

**Staphida castaniceps everetti** Sharpe.

*Staphidia everetti* Sharpe, Ibis, 1887, p. 447: Mt. Kinabalu, North  
Borneo.

*Distr.*—Borneo.

Genus **SIVA** Hodgson.

**Siva strigula** Hodgs.<sup>1</sup> Chestnut-tailed Siva.

[**Siva strigula strigula** Hodgs.

*Siva strigula* Hodgson, Ind. Review, 1838, p. 89: Nepal.

*Distr.*—Extra-limital.]

**Siva strigula malayana** Hart.

*Siva strigula malayana* Hartert, Nov. Zool. iv, 1902, p. 567: Mt.  
Tahan, Pahang.

*Siva strigula omissa* Roths., Nov. Zool. xxviii, 1921, p. 40: Mt. Kerbau,  
Perak.

*Distr.*—Malay States.

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<sup>1</sup> Cf. Meinertz., Bull. B. O. C. xlvi, 1926, p. 128.

**Siva cyanouroptera** Hodgs.

Dull Siva.

[**Siva cyanouroptera cyanouroptera** Hodgs.

*Siva cyanouroptera* Hodgson, Ind. Review, 1838, p. 88 : Nepal.

*Distr.*—Extra-limital.]

**Siva cyanouroptera sordidior** Sharpe.

*Siva sordidior* Sharpe, Proc. Zool. Soc. 1888, p. 276 : Batang Padang Mts., Perak.

*Distr.*—Malay Peninsula.

Genus **ERPORNIS** Blyth.

**Erpornis zantholeuca** Blyth.

White-bellied Babbler.

[**Erpornis zantholeuca zantholeuca** Blyth.

*Erpornis zantholeuca* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p. 380 : Nepal.

*Distr.*—Extra-limital.]

**Erpornis zantholeuca interposita** Hart.

*Herpornis xantholeuca interposita* Hartert, Bull. Brit. Orn. Cl. xxxviii, 1917, p. 20 : Upper Perak.

*Distr.*—Malay Peninsula.

**Erpornis zantholeuca brunnescens** Sharpe.

*Herpornis brunnescens* Sharpe, Ibis, 1876, p. 41 : Sarawak.

*Distr.*—Borneo.

Genus **CUTIA** Hodgson.

**Cutia nipalensis** Hodgs.

Cutia.

[**Cutia nipalensis nipalensis** Hodgs.

*Cútia Nipalensis* Hodgson, Journ. Asiat. Soc. Bengal, v, 1836, p. 773 : Nepal.

*Distr.*—Extra-limital.]

**Cutia nipalensis cervinocrissa** Sharpe.

*Cutia cervinocrissa* Sharpe, Proc. Zool. Soc. 1888, p. 276 : Mt. Batu Puteh, Perak.

*Distr.*—Malay States.

Genus **PTERUTHIUS** Swainson.

**Pteruthius flaviscapis** (Temm.).

Greater Shrike-Babbler.

**Pteruthius flaviscapis flaviscapis** (Temm.).

*Allotrius flaviscapis* Temminck, Pl. Col. 589, 1836 : Java.

*Distr.*—Java.

**Pteruthius flaviscapis aeralatus** Tick.

*Pteruthius aeralatus* Tickell, Journ. Asiat. Soc. Bengal, xxiv, 1855, p. 267: Tenasserim.

*Distr.*—Malay Peninsula.<sup>1</sup>

**Pteruthius flaviscapis cameranoi** Salvad.

*Pteruthius cameranoi* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 232: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

**Pteruthius flaviscapis robinsoni** Chas. and Kloss.

*Pteruthius flaviscapis robinsoni* Chasen and Kloss, Bull. Raffles Mus. 5, 1931, p. 86: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Pteruthius ænobarbus** (Temm.).

Lesser Shrike-Babbler.

**Pteruthius ænobarbus ænobarbus** (Temm.).

*Allotrius ænobarbus* Temminck, Pl. Col. 589, 1836: West Java.

*Distr.*—Sumatra.<sup>2</sup>  
Java (west).

**Pteruthius ænobarbus tahanensis** Hart.

*Pteruthius tahanensis* Hartert, Nov. Zool. ix, 1902, p. 576: Mt. Tahan, Pahang.

*Distr.*—Malay States.

Genus **MESIA** Hodgson.

**Mesia argenteauris** Hodgs.

Silver-eared Mesia.

[**Mesia argenteauris argenteauris** Hodgs.

*Mesia argenteauris* Hodgson, Indian Review, 1838, p. 88: Nepal.

*Distr.*—Extra-limital.]

**Mesia argenteauris tahanensis** Yen.<sup>3</sup>

*Mesia argenteauris tahanensis* "Robinson", Yen, Science Journ. (Sun Yat-Sen University) vi, 2, 1934, p. 63: Mt. Tahan, Malay Peninsula.

*Distr.*—Malay Peninsula.

**Mesia argenteauris laurinae** (Salvad.).

*Leiothrix laurinae* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 231: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

<sup>1</sup> Some specimens from the Malay States are *aeralatus* > *cameranoi*: a female from the Lampongs, S. Sumatra (Buit. Mus.) is much paler below than Korinchi birds.

<sup>2</sup> I have some doubts as to whether this species really occurs in Sumatra.

<sup>3</sup> Many years ago Hartert noticed the characters of this form. Robinson wrote the above name on the box of Malayan specimens in the British Museum, but never published the name. Mr. Yen in his "Etude des Genres du Groupe *Siva-Leiothrix*" (original publication not seen by me, but details supplied by Mr. N. B. Kinnear) has, apparently unconsciously, described the bird.

## Family TROGLODYTIDÆ.

Genus **PNOEPYGA** Hodgson.**Pnoepyga pusilla** Hodgs. Scaly-breasted Wren.**Pnoepyga pusilla pusilla** Hodgs.*Pnoepyga pusilla* Hodgson, Proc. Zool. Soc. 1845, p. 25 : Nepal.*Distr.*—Peninsular Siam.<sup>1</sup>**Pnoepyga pusilla harterti** Rob. and Kloss.*Pnoepyga pusilla harterti* Robinson and Kloss, Journ. Fed. Malay States Mus. viii, pt. 2, 1918, 205 : Mt. Ijau, Perak.*Distr.*—Malay States.**Pnoepyga pusilla lepida** Salvad.*Pnoepyga lepida* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 227 : Padang Highlands, West Sumatra.*Distr.*—Sumatra.**Pnoepyga pusilla rufa** Sharpe.*Pnoepyga rufa* Sharpe, Cat. Birds Brit. Mus. vi, 1881, p. 304 : Java.*Distr.*—Java.Genus **TESIA** Hodgson.**Tesia cyaniventer** Hodgs. Slaty-bellied Wren.[**Tesia cyaniventer cyaniventer** Hodgs.]*Tesia cyaniventer* Hodgson, Journ. Asiat. Soc. Bengal, vi, 1837, p. 101 : Nepal.*Distr.*—Extra-limital.]**Tesia cyaniventer superciliaris** (Bp.).*Microura superciliaris* Bonaparte, Consp. Gen. Avium, i, 1850, p. 258 : Java.*Brachypteryx lepturus* Gray, Handlist Birds, i, 1869, p. 312 : Java (nom. nud.).*Distr.*—Java.**Tesia whiteheadi** (Sharpe).<sup>2</sup> Whitehead's Wren.*Orthnocichla whiteheadi* Sharpe, Ibis, 1888, p. 478 : Mt. Kinabalu, North Borneo.*Distr.*—Borneo.<sup>1</sup> The form occurring in the mountains of Peninsular Siam seems not to be *harterti* of the Malay States. It is, no doubt, separable from *P. pusilla*, but the available material is too poor to justify further study.<sup>2</sup> Nearer to *T. subulata* of Timor and Flores, than to any continental form.

Family TURDIDÆ.<sup>1</sup>Genus BRACHYPTERYX<sup>2</sup> Horsfield.

**Brachypteryx leucophris** (Temm.). Lesser Short-wing.

**Brachypteryx leucophris leucophris** (Temm.).

*Myiothera leucophris* Temminck, Pl. Col. 448, 1827: Java.

*Distr.*—Peninsular Siam.

Sumatra.

Java; Bali.

**Brachypteryx leucophris wrayi** O.-Grant.

*Brachypteryx wrayi* O.-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 10:  
Mt. Batu Puteh, Perak.

*Distr.*—Malay States.

**Brachypteryx montana** Horsf. Greater Short-wing.

**Brachypteryx montana montana** Horsf.

*Brachypteryx montana* Horsfield, Trans. Linn. Soc. xiii, 1821, p.  
157: Java.

*Distr.*—Java.

**Brachypteryx montana saturata** Salvad.

*Brachypteryx saturata* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879,  
p. 225: Padang Highlands, Sumatra.

*Distr.*—Sumatra.

**Brachypteryx montana erythrogyna** Sharpe.

*Brachypteryx erythrogyna* Sharpe, Ibis, 1888, p. 389: Mt. Kinabalu,  
North Borneo.

*Distr.*—Borneo.

## Genus LUSCINIA Forster.

**Luscinia cyane** (Pall.). Siberian Blue Chat.

**Luscinia cyane cyane** (Pall.).

*Motacilla Cyane* Pallas, Reise Prov. Russ. Reichs., iii, 1776, p.  
697: East Siberia.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

<sup>1</sup> In the absence of an authenticated specimen *Phoenicurus leucoptera* Blyth (Journ. As. Soc. Bengal, xii, 1843, p. 962) is not accepted for the Malay Peninsula.

<sup>2</sup> What is *Brachypteryx flaviventris* Salvad., Ann. Mus. Civ. Gen. xiv, 1879, p. 226, based on a single female from Mt. Singgalang, Padang Highlands, Sumatra?

Genus **SAXICOLA** Bechstein.

**Saxicola torquata** (Linn.). Stone-Chat.

[**Saxicola torquata torquata** (Linn.).

*Muscicapa torquata* Linn., Syst. Nat. 12th. ed. i, 1766, p. 328:  
Cape of Good Hope.

*Distr.*—Extra-limital.]

**Saxicola torquata stejnegeri** (Parrot).

*Pratincola rubicola stejnegeri* Parrot, Verh. Orn. Ges. Bayern, viii,  
1908, p. 124: North Japan.

*Distr.*—Malay Peninsula.  
Borneo.

**Saxicola caprata** (Linn.). Black Stone-Chat.<sup>1</sup>

[**Saxicola caprata caprata** (Linn.).

*Motacilla Caprata* Linn., Syst. Nat. 12th. ed. i, 1766, p. 335:  
Luzon, Philippine Islands.

*Distr.*—Extra-limital.]

**Saxicola caprata pyrrhonota** (Vieill.).

*Oenanthe pyrrhonota* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xxi,  
1818, p. 428: Timor.

*Saxicola fruticola* Horsf., Trans. Linn. Soc. xiii, p. 157, 1821: Java.

*Distr.*—Borneo (? subsp.).<sup>2</sup>  
Java; Bali.

Genus **ENICURUS** Temminck.

**Enicurus leschenaulti** (Vieill.). White-crowned Forktail.

**Enicurus leschenaulti leschenaulti** (Vieill.).

*Turdus Leschenaulti* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xx,  
1818, p. 269: Java.

*Enicurus coronatus* Temm., Pl. Col. 113, 1824: Java.

*Motacilla speciosa* Horsf., Trans. Linn. Soc. xiii, 1820, p. 155: Java.

*Distr.*—Java; Bali.

**Enicurus leschenaulti frontalis** Blyth.

*Enicurus frontalis* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p.  
156: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Nias Island; West Sumatra.  
Borneo.

<sup>1</sup> Revision: Stres., Nov. Zool. xix, 1912, p. 319.

<sup>2</sup> Blasius has recorded *caprata* from Borneo: there is no reliable record of any form from the Malay Peninsula.



**Enicurus leschenaulti borneensis** Sharpe.

*Henicurus borneensis* Sharpe, Ibis, 1889, p. 277: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (mountains).

**Enicurus ruficapillus** Temm.

Chestnut-backed Forktail.

*Enicurus ruficapillus* Temminck, Pl. Col. 534, 1832: Palembang, Sumatra.

*Enicurus diadematus* S. Müll., Tijds. Nat. Gesch. Phys. 1835, p. 346: Sumatra.

*Henicurus rufidorsalis* Sharpe, Ibis, 1879, p. 255: Lawas River, Sarawak.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Enicurus schistaceus** Hodgs.

Slaty-backed Forktail.

*Enicurus schistaceus* Hodgson, Asiat. Res. xix, 1836, p. 189: Nepal.

*Distr.*—Malay States.

**Enicurus velatus** Temm.

Small Forktail.

**Enicurus velatus velatus** Temm.

*Enicurus velatus* Temminck, Pl. Col. 160, 1823: Java.

*Distr.*—Java.

**Enicurus velatus sumatranus** Rob. and Kloss.

*Henicurus velatus sumatranus* Robinson and Kloss, Journ. Fed. Malay States Mus. xi, 1923, p. 56: Korinchi, Sumatra.

*Distr.*—Sumatra.

Genus **MUSCISYLVA** Hodgson.

**Muscisylvia leucura** Hodgs.

White-tailed Blue Robin.

**Muscisylvia leucura leucura** Hodgs.

*Muscisylvia leucura* Hodgson, Proc. Zool. Soc. 1845, p. 27: Nepal.

*Distr.*—Malay States.<sup>1</sup>

**Muscisylvia diana** (Less.).

Sunda Island Blue Robin.

**Muscisylvia diana diana** (Less.).

*Lanius* (*Notodela*) *diana* Lesson, in Bélanger, Voy. Inde; Zool., 1834, p. 246, Oiseaux pl. 3: Pegu error=Java.

*Brachypteryx albifrons* Bp., Consp. Gen. Avium, 1850, p. 257: Java.

*Brachypteryx salaccensis* Vorderm., Nat. Tijdschr. Ned. Ind. xlv, 1886, p. 336: Java.

*Distr.*—Java.

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<sup>1</sup> Perhaps separable from the typical race on account of small size.

**Muscisylvia diana sumatrana** (Rob. and Kloss).

*Notodela diana sumatrana* Robinson and Kloss, Journ. Fed. Malay States Mus. viii, pt. 2, 1918, p. 215: Korinchi, Sumatra.

*Distr.*—Sumatra.

Genus **COPSYCHUS** Wagler.

**Copsychus saularis** (Linn.).<sup>1</sup>

Straits Robin.

[**Copsychus saularis saularis** (Linn.).

*Gracula Saularis* Linn., Syst. Nat. 10th. ed. 1758, p. 109: Bengal.

*Distr.*—Extra-limital.]

**Copsychus saularis musicus** (Raffl.).

*Lanius musicus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 307: Bencoolen, West Sumatra.

*Copsychus saularis ephalus* Oberholser, Smiths. Misc. Coll. lxxvi, No. 6, 1923, p. 2: Tarussan Bay, North-west Sumatra.

*Distr.*—Malay Peninsula;<sup>2</sup> Tioman Island.  
Sumatra; Rhio Archipelago, Billiton.

\***Copsychus saularis nesiotes** Oberh.

*Copsychus saularis nesiotes* Oberholser, Smiths. Misc. Coll. lxxvi, No. 6, 1918, p. 3: Banka Island.

*Distr.*—Banka Island.

\***Copsychus saularis zacnecus** Oberh.

*Copsychus saularis zacnecus* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 12: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

\***Copsychus saularis nesiarchus** Oberh.

*Copsychus saularis nesiarchus* Oberholser, Smiths. Misc. Coll. lxxvi, No. 6, 1912, p. 3: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Copsychus saularis pagiensis** Richm.

*Copsychus saularis pagiensis* Richmond, Proc. Biol. Soc. Wash. xxv, 1912, p. 105: North Pagi Island, West Sumatra.

*Distr.*—Siberut, Sipora and Pagi Islands, West Sumatra.

**Copsychus saularis problematicus** Sharpe.

*Copsychus problematicus* Sharpe, Ibis, 1876, p. 36: Sibu, Sarawak.

*Distr.*—Borneo (west).

<sup>1</sup> Cf. Stres., Journ. f. Orn. 1924, p. 252; Chas. and Kl., Bull. Raff. Mus. 4, 1930, p. 84.

<sup>2</sup> The Malayan bird is not strictly identical with *musicus*, but is *saularis* > *musicus* although even the form occurring in Peninsular Siam is nearer to *musicus* than to *saularis*.

**Copsychus saularis niger** Wardl. Rams.

*Copsychus niger* Wardlaw Ramsay, Proc. Zool. Soc. 1886, p. 123 :  
Sandakan, North Borneo.

*Distr.*—Borneo (north).

**Copsychus saularis pluto** Bp.

*Copsychus pluto* Bonaparte, Consp. Gen. Avium, i, 1850, p. 267 :  
Samarinda, East Borneo.

*Distr.*—Borneo (east); Maratua Islands, East Borneo (? subsp.).

**Copsychus saularis javensis** Chas. and Kloss.

*Copsychus saularis javensis* Chasen and Kloss, Bull. Raffles Mus. 4,  
1930, p.p. 87 and 89 : Wynkoops Bay, South-west Java.

*Distr.*—Java (west).

**Copsychus saularis amœnus** (Horsf.).<sup>1</sup>

*Turdus amœnus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 147 :  
Java.

*Gryllivora brevirostra* Swains., Anim. in Menag, 1837, p. 292 : Java.

*Distr.*—Java (east); Bali.

Genus **KITTACINCLA** Gould.

**Kittacincla malabarica** (Scop.).<sup>2</sup>

Shama.

[*Kittacincla malabarica malabarica* (Scop.).

*Muscicapa malabarica* Scopoli, Del. Faun. et Flor. Insubr. ii, 1786,  
p. 96 : Malabar, South-west India.

*Distr.*—Extra-limital.]

**Kittacincla malabarica interposita** Rob. and Kloss.

*Kittacincla malabarica interposita* Robinson and Kloss,<sup>3</sup> Journ. Fed.  
Malay States Mus. x, 1922, p. 262 : Daban, South Annam.

*Distr.*—Peninsular Siam (part).

**Kittacincla malabarica mallopercna** Oberh.

*Kittacincla malabarica mallopercna* Oberholser, Smiths. Misc. Coll.  
lxxvi, 6, 1923, p. 5 : Singkep Island.

*Distr.*—Malay Peninsula.

Rhio and Lingga Archipelagos.

<sup>1</sup> The distribution of the various forms of *Copsychus* in Borneo and Java is complicated and the bird is unstable in several large areas : we have tried to appreciate the subspecific ranges in Bull. Raff. Mus. 4, 1930, pp. 84—90.

<sup>2</sup> Revision : Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 82.

<sup>3</sup> Oberholser restricts the range of *interposita* considerably and considers that at least the northern and middle portions of the Malay Peninsula are occupied by *pellogyna* Oberh. described from Tenasserim.

**Kittacincla malabarica tricolor** (Vieill.).<sup>1</sup>

*Turdus tricolor* Vieillot, Nov. Dict. d'Hist. Nat. xxx, 1818, p. 291 :  
Isles de la mer du Sud=West Java (*Rob. and Kloss, 1921*).

*Distr.*—Sumatra.

Karimata Islands.

Java (west).

**Kittacincla malabarica javana** Kloss.

*Kittacincla malabarica javana* Kloss, Journ. Fed. Malay States Mus.  
x, 1921, p. 210 : Karangbolong, mid Java.

*Distr.*—Java (central).

**Kittacincla malabarica omissa** Hart.

*Kittacincla macrurus omissa* Hartert, Nov. Zool. ix, 1902, p. 572 :  
Lawang, East Java.

*Distr.*—Java (east).

**Kittacincla malabarica ochroptila** Oberh.

*Kittacincla malabarica ochroptila* Oberholser, Bull. U.S. Nat. Mus.  
98, 1917, p. 51 : Siantan Island, Anamba Islands.

*Distr.*—Anamba Islands (part).

**\*Kittacincla malabarica heterogyna** Oberh.

*Kittacincla malabarica heterogyna* Oberholser, Bull. U.S. Nat. Mus.  
98, 1917, p. 53 : Riabu Island, Anamba Islands.

*Distr.*—Anamba Islands (part).

**Kittacincla malabarica eumesa** Oberh.

*Kittacincla malabarica eumesa* Oberholser, Bull. U.S. Nat. Mus.  
159, 1932, p. 81 : Bunguran Island, Natuna Islands.

*Distr.*—North Natuna Islands.

**Kittacincla malabarica suavis** (Scl.).

*Copsychus suavis* P. L. Slater, Proc. Zool. Soc. 1861, p. 185 :  
Bandjermasin, South Borneo.

*Kittacincla malabarica zaphotina* Oberholser, Smiths. Misc. Coll. lxxvi,  
1923, p. 6 : Central Borneo.

*Distr.*—Borneo (not north).

**\*Kittacincla malabarica abbotti** Oberh.

*Kittacincla malabarica abbotti* Oberholser, Smiths. Misc. Coll. lxxvi,  
No. 6, 1923, p. 5 : Banka Island.

*Distr.*—Banka Island; Billiton Island.

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<sup>1</sup> This race merges into *interposita* and we have used the name *malloperca* for birds from an intermediate area in which the racial characters are ill-defined.

**Kittacincla malabarica opisthisa** Oberh.

*Kittacincla malabarica opisthisa* Oberholser, Smiths. Misc. Coll. lx  
No. 7, 1912, p. 13: Tuanku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**\*Kittacincla malabarica opisthopela** Oberh.

*Kittacincla malabarica opisthopela* Oberholser, Smiths. Misc. Coll.  
lx, No. 7, 1912, p. 13: Tana Bala Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra

**Kittacincla malabarica melanura** Salvad.

*Cittocincla melanura* Salvadori, Ann. Mus. Civ. Gen. (2) iv, 1887,  
p. 549, pl. 8, fig. 1: Nias Island.

*Kittacincla melanura hypolisa* Oberh., Smiths. Misc. Coll. lx, No. 7,  
1912, p. 13: Simalur Island.

*Kittacincla melanura opisthochra* Oberh., Smiths. Misc. Coll. lx, No. 7,  
1912, p. 13: Lasia Island.

*Kittacincla melanura pagensis* Oberh., Smiths. Misc. Coll. lxxvi, No. 6,  
1923, p. 3: North Pagi Island.

*Distr.*—West Sumatran Islands of Simalur, Lasia, Babi, Nias,  
Siberut, Sipora and Pagi.

**Kittacincla malabarica nigricauda** Vord.

*Cittacincla nigricauda* Vorderman, Nat. Tijdschr. Ned. Ind. xlii,  
1893, p. 197: Kangean Island.

*Distr.*—Kangean Islands; Mata Siri Island, Java Sea.

**Kittacincla stricklandii** (Motl. and Dillw.). White-crowned Shama.**Kittacincla stricklandii stricklandii** (Motl. and Dillw.).

*Copsychus Stricklandii* Motley and Dillwyn, Nat. Hist. Labuan,  
1855, p. 20, pl. 4: Labuan Island.

*Distr.*—Borneo (north).

**Kittacincla stricklandii barbouri** Bangs and Peters.

*Kittacincla barbouri* Bangs and Peters, Occ. Pap. Boston Soc. Nat.  
Hist. v, 1927, p. 239: Maratua Island.

*Distr.*—Maratua Island, East Borneo.

Genus **TRICHIXOS** Lesson.**Trichixos pyropyga** Less.

Orange-tailed Thrush.

*Trichixos pyropyga* Lesson, Rev. Mag. Zool. 1839, p. 167:  
Sumatra.

*Turdinus? supercilialis* A. Hay, Madr. Journ. xiii, pt. 2, 1844, p. 163:  
Malacca.

*Myiolestes pyrrhonota* Bp., Consp. Gen. Avium, i, 1850, p. 358: Borneo.

*Distr.*—Malay States.

Sumatra.

Borneo.

Genus **COCHOA** Hodgson.

**Cochoa azurea** (Temm.). Blue Thrush.

**Cochoa azurea azurea** (Temm.).

*Turdus azureus* Temminck, Pl. Col. 274, 1824 : Java.

*Distr.*—Java.

**Cochoa azurea beccarii** Salvad.

*Cochoa beccarii* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 228 :  
Padang Highlands, Sumatra.

*Distr.*—Sumatra.

Genus **MYOPHONUS**<sup>1</sup> Temminck.

**Myophonus glaucinus** (Temm.). Javan Whistling Thrush.

*Pitta glaucina* Temminck, Pl. Col. 194, 1823 : Java.

*Turdus cyaneus* Horsf., (not Müll. 1776) Trans. Linn. Soc. xiii, 1821,  
p. 149 : Java.

*Distr.*—Java.

**Myophonus castaneus** Wardl. Rams. Brown-winged Whistling Thrush.

*Myiophoneus castaneus* Wardlaw Ramsay, Proc. Zool. Soc. 1880,  
p. 16 : West Sumatra.

*Distr.*—Sumatra.

**Myophonus borneensis** Slater. Bornean Whistling Thrush.

*Myiophoneus borneensis* H. H. Slater, Ibis, 1885, p. 123 : Sarawak.

*Distr.*—Borneo.

**Myophonus melanurus** (Salvad.). Sumatran Whistling Thrush.

*Arrenga melanura* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p.  
227 : Padang Highlands, Sumatra.

*Distr.*—Sumatra.

**Myophonus robinsoni** O.-Grant. Malayan Whistling Thrush.

*Myiophoneus robinsoni* Ogilvie-Grant, Bull. Brit. Orn. Cl. xv, 1905,  
p. 69 : Mt. Mengkuang Lebar, Selangor, Malay States.

*Distr.*—Malay States.

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<sup>1</sup> We have left most of the forms of this genus under a specific name as in the present state of our knowledge it seems impossible to link them up any further. A recent occurrence of *crassirostris* in South-east Siam, within the range of *eugeniæ*, destroys our former conception of the grouping of the large yellow-billed forms. Robinson has united the yellow-billed *robinsoni* to *glaucina* (= *cyaneus*) a black-billed form of the "*Arrenga*" section, but this action is open to criticism and we now feel more than doubtful about *melanura* and *cyaneus* being forms of one species: the Sumatran form of *cyaneus* is more likely to be *castaneus*.

**Myophonus flavirostris** (Horsf.). Larger Whistling Thrush.

**Myophonus flavirostris flavirostris** (Horsf.).

*Turdus flavirostris* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 149 : Java.

*Myophonus metallicus* Temm., Pl. Col. 170, 1823 : Java.

Distr.—Java.

**Myophonus flavirostris dicrorhynchus** Salvad.

*Myophonus dicrorhynchus* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 227 : Padang Highlands, West Sumatra.

Distr.—Malay Peninsula (north to Patani).  
Sumatra.

**Myophonus flavirostris crassirostris** Rob.

*Myiophoneus crassirostris* Robinson, Bull. Brit. Orn. Cl. xxv, 1910, p. 99 : Trang, Peninsular Siam.

Distr.—Malay Peninsula (south to Langkawi Islands).

# Genus **TURDUS** Linn.

**Turdus javanicus** Horsf. Horsfield's Thrush.

**Turdus javanicus javanicus** Horsf.

*Turdus Javanicus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 148 : Central Java, restr. Mt. Tjerimai.

*Turdus nigricrissus* Bp., Compt. Rend. xxxviii, 1854, p. 6 : Java.

Distr.—Java (central).

**Turdus javanicus fumidus** S. Müll.

*Turdus (Merula) fumidus* S. Müller, Verh. Nat. Gesch. Land en Volk. 1843, p. 201 : Mt. Gede, West Java.

*Turdus hypopyrrhus* Hartl., Verz. Brem. Samml. 1844, p. 43 : Java.

*Turdus vulcanus* Pelz., Reis Novara, Vögel, 1865, p. 70 : Java.

Distr.—Java (west, pt.).

**Turdus javanicus biesenbachi** Stresm.

*Turdus javanicus biesenbachi* Stresemann, Orn. Monatsbr. xxxviii, 1930, p. 149 : Mt. Papandajan, West Java.

Distr.—Java (west, pt.).

**Turdus javanicus whiteheadi** (Seeb.).

*Merula whiteheadi* Seeböhm, Bull. Brit. Orn. Cl. i, 1893, p. 25 : Tosari, East Java.

Distr.—Java (east).

TURDIDÆ.

**Turdus javanicus indrapuræ** Rob. and Kloss.

*Turdus indrapuræ* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. 73, 1916, p. 277 : Mt. Korinchi, Sumatra.

*Distr.*—Sumatra.

**Turdus javanicus seebohmi** (Sharpe).

*Merula seebohmi* Sharpe, Ibis, 1888, p. 386 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Turdus javanicus erythropleurus** Sharpe.

*Turdus erythropleurus* Sharpe, Proc. Zool. Soc. 1887, p. 515 : Christmas Island.

*Distr.*—Christmas Island, Indian Ocean; Cocos-Keeling Islands (introduced).

**Turdus obscurus** Gmel.

Dusky Thrush.

**Turdus obscurus obscurus** Gm.

*Turdus obscurus* Gmelin, Syst. Nat. 1, 1789, p. 816 : Lake Baikal.

*Turdus rufulus* Drap., Dict. Class. Hist. Nat. x, 1826, p. 443 : Java.

*Turdus modestus* Eyton, Proc. Zool. Soc. 1839, p. 103 : Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Billiton.

Borneo.

Java.

Genus **GEOKICHLA** S. Müller.

**Geokichla sibirica** (Pall.).

Siberian Ground-Thrush.

**Geokichla sibirica sibirica** (Pall.).

*Turdus sibiricus* Pallas, Reise Russ. Reichs. iii, 1776, p. 694 : Dauria.

*Distr.*—Malay States.

Sumatra; Nias Island, West Sumatra.

Borneo.

Java.

**Geokichla sibirica davisoni** (Hume).

*Turdulus davisoni* Hume, Stray Feathers, v, 1877, p. 63 : Mt. Muleyit, Tenasserim.

*Distr.*—Malay States,

Sumatra.



**Geokichla interpres** (Temm.). Temminck's Ground-Thrush.

**Geokichla interpres interpres** (Temm.).

*Turdus interpres* Temminck, Pl. Col. 458, 1828 : Java.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java.

**\*Geokichla interpres leucolaema** Salvad.

*Geocichla leucolaema* Salvadori, Ann. Mus. Civ. Gen. (2), xii, 1892, p. 135 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

**Geokichla citrina** (Lath.). Grey-and-Orange Ground-Thrush.

**Geokichla citrina citrina** (Lath.).

*Turdus citrinus* Latham, Index Orn. i, 1790, p. 350 : Cachar.

*Geocichla innotata* (sic) Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 370 : Malay Peninsula (South).

*Distr.*—Malay Peninsula.

Sumatra.

**Geokichla citrina aurata** Sharpe.

*Geocichla aurata* Sharpe, Ibis, 1888, p. 478 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Geokichla citrina rubecula** Gould.

*Geocichla rubecula* Gould, Proc. Zool. Soc. 1836, p. 7 : Java.

*Distr.*—Java; Bali.

**Geokichla everetti** Sharpe. Everett's Ground-Thrush.

*Geocichla everetti* Sharpe, Ibis, 1892, p. 323 : Mt. Dulit, North Sarawak.

*Distr.*—Borneo.

# Genus ZOOTHERA Vigors.

**Zoothera andromedæ** (Temm.).

*Myioihera andromedæ* Temminck, Pl. Col. 392, 1826 : Java.

*Distr.*—Sumatra; Engano Island, West Sumatra.

Java (not east).

TURDIDÆ.

Genus **OREOCINCLA** Gould.

**Oreocincla dauma** (Lath.). Mountain-Thrush.

**Oreocincla dauma dauma** (Lath.).

*Turdus Dauma* Latham, Ind. Orn. 1, 1790, p. 362 : India.

*Distr.*—Malay States.

**Oreocincla dauma horsfieldi** Bp.

*Oreocincla horsfieldi* Bonaparte, Rev. et Mag. Zool. 1857, p. 205 : Java.

*Oreocincla horsfieldi affinis* Richmond, Proc. Biol. Soc. Wash. xv, 1902, p. 158 : Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

Sumatra.

Java.

Genus **MONTICOLA** Boie.

**Monticola solitaria** (Linn.). Blue Rock-Thrush.

[**Monticola solitaria solitaria** (Linn.).

*Turdus solitarius* Linn., Syst. Nat. 10th. ed. 1758, p. 170 : Italy.

*Distr.*—Extra-limital.]

**Monticola solitaria pandoo** (Sykes).

*Petrocincla pandoo* Sykes, Proc. Zool. Soc. 1832, p. 87 : Ghauts, India.

*Distr.*—Malay Peninsula.

Sumatra.

**Monticola solitaria philippensis**\* (P. L. S. Müll.).

*Turdus Philippensis* P. L. S. Müller, Natursystem, Anhang, 1776, p. 142 : Philippine Islands.

*Distr.*—Malay Peninsula.

Borneo; North Natuna Islands.

**Monticola gularis** (Swinh.). Swinhoe's Rock-Thrush.

**Monticola gularis** (Swinh.).

*Oræcetes gularis* Swinhoe, Proc. Zool. Soc. 1862, p. 318 : Peking.

*Distr.*—Malay Peninsula.

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\* We have used *philippensis* for those Malaysian birds with chestnut in the plumage, but all are "*affinis*" Blyth if this latter form is good (the "racial hybrids" of Lord Rothschild). The locality "Java" needs confirmation.

## Family SYLVIIDÆ.

Genus **LOCUSTELLA** Kaup.**Locustella ochotensis** (Midd.). Middendorff's Grasshopper-Warbler.\***Locustella ochotensis ochotensis** (Midd.).*Sylvia* (*Locustella*) *ochotensis* Middendorff, Siberische Reise, ii, pt. 2, 1853, p. 185: Siberia.*Distr.*—Borneo.**Locustella certhiola** (Pall.).<sup>1</sup>

Pallas's Grasshopper-Warbler.

**Locustella certhiola subsp.***Motacilla certhiola* Pallas, Zoogr. Rosso-Asiat. i, 1827, p. 509: Lake Baikal.*Calamodyta Doriae* Salvad., Att. R. Accad. Sci. Torino, iii, 1868, p. 531: Sarawak.*Distr.*—Malay Peninsula.

Sumatra.

Borneo; South Natuna Islands.

Java (west).

**Locustella lanceolata** (Temm.). Streaked Grasshopper-Warbler.*Sylvia lanceolata* Temminck, Man. d'Orn. ed. 2, iv, 1840, p. 614: Russia.*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java (west).

Genus **ACROCEPHALUS** Naumann.**Acrocephalus stentoreus** (Hempr. & Ehrenb.)<sup>2</sup> Great Reed-Warbler.[**Acrocephalus stentoreus stentoreus** (Hempr. and Ehrenb.).*Curruca stentorea* Hemprich and Ehrenberg, Symb. Phys., Aves, fol. bb. 1833: Egypt.*Distr.*—Extra-limital.]

<sup>1</sup> The only Malaysian specimens examined are from the Peninsula and the Natuna Islands. Dr. Stresemann has seen these and is tempted to call all *minor* (*L. minor*, Dav. and Oust., Ois. Chine, 1877, p. 250: Peking) except one Malayan *certhiola*. Meise refers a Javan bird to *L. c. sparsimstriata* Meise (Abh. Mus. f. Tierk. Völk. Dres. xviii, 1934, 2, p. 39. West Siberia) and Sushkin records *L. c. rubescens* Blyth (Calcutta) from Borneo. Until authors are agreed on differentiation in the breeding areas we cannot go further.

<sup>2</sup> Cf. Stres., Orn. Monatsber, xxxii, 1924, p. 167.

**Acrocephalus stentoreus orientalis** (Temm. and Schleg.).

*Salicaria turdina orientalis* Temminck and Schlegel, Fauna Japon., Aves, 1847, p. 50: Japan.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra.

Borneo.

Java (west); Karimon-Java Islands.

**\*Acrocephalus stentoreus siebersi** (Sal.).

*Acrocephalus stentoreus siebersi* Salomonson, Orn. Monatsbr. xxxvi, 1928, p. 119: West Java.

*Distr.*—Java (west).

**Acrocephalus bistrigiceps** Swinh.

Schrenck's Reed-Warbler.

*Acrocephalus bistrigiceps* Swinhoe, Ibis, 1860, p. 51: Amoy.

*Distr.*—Peninsular Siam.

Genus **ORTHOTOMUS** Horsfield.**Orthotomus sutorius** (Penn.).

Long-tailed Tailor-Bird.

**[Orthotomus sutorius sutorius** (Penn.).

*Motacilla sutoria* Pennant, Indian Zool. 1769, pl. 7: Ceylon.

*Distr.*—Extra-limital.]

**Orthotomus sutorius maculicollis** Moore.

*Orthotomus maculicollis* Moore, Proc. Zool. Soc. 1854, p. 309: Malacca.

*Orthotomus huegelii* Pelz., Sitz. k. Akad. Wien, xxiv, 1857, p. 369 (fide Cat. Bds.: not seen).

*Distr.*—Malay Peninsula.<sup>1</sup>

**Orthotomus sutorius edela** Temm.

*Orthotoma edela* Temminck, Pl. Col. 599, fig. 2, 1836: Java.

*Distr.*—Java.<sup>2</sup>

**Orthotomus atrogularis**<sup>3</sup> Temm.

Black-necked Tailor-Bird.

**Orthotomus atrogularis atrogularis** Temm.

*Orthotomus atrogularis* Temminck, Pl. Col., livr. 101, 1836, text: Malacca.

*Orthotomus flavoviridis* Moore, Proc. Zool. Soc. 1854, p. 79: Malacca.

*Distr.*—Malay Peninsula.<sup>4</sup>

Sumatra; Rhio Archipelago; Billiton.

Borneo (not north); North Natuna Islands.

<sup>1</sup> Birds from Peninsular Siam are *O. sutorius* > *maculicollis*.

<sup>2</sup> Has been recorded from Sumatra, but we think in error.

<sup>3</sup> A form of *O. atrogularis* is said to occur in the Banjak Islands, West Sumatra, but no specimens seem to have been obtained.

<sup>4</sup> Birds from the north of the Malay Peninsula are perhaps very slightly yellower above than those from the Malay States: they are *atrogularis* > *nitidus* Hume (Tenasserim).

**Orthotomus atrogularis humphreysi** Chas. and Kloss.

*Orthotomus atrogularis humphreysi* Chasen and Kloss, Journ. f. Ornith. 1929, Band 2, p. 120: Bettotan near Sandakan, North Borneo.

*Distr.*—Borneo (north).

**Orthotomus atrogularis major** Chas. and Kloss.

*Orthotomus atrigularis major* Chasen and Kloss, Journ. Malay. Br. Roy. Asiat. Soc. vi, pt. 3, 1928, p. 60: Siantan Island, Anamba Islands.

*Distr.*—Tioman Island; Anamba Islands.

**\*Orthotomus atrogularis eumelas** Oberh.

*Orthotomus atrogularis eumelas* Oberholser, Smiths. Misc. Coll. lxxvi, 1923, p. 6: Banka Island.

*Distr.*—Banka Island.

**Orthotomus sericeus** Temm.<sup>1</sup>

Red-headed Tailor-Bird.

**Orthotomus sericeus sericeus** Temm.

*Orthotomus sericeus* Temminck, Pl. Col. livr. 101, 1836, text: Borneo.

*Distr.*—Borneo.

**Orthotomus sericeus hesperius** Oberh.

*Orthotomus sericeus hesperius* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 89: Lingga Island.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Billiton.

**Orthotomus sericeus rubicundulus** Chas. and Kloss.

*Orthotomus ruficeps rubicundulus* Chasen and Kloss, Nov. Zool. xxxvi, 1931, p. 279: Sirhassen Island, South Natuna Islands.

*Distr.*—South Natuna Islands.

**Orthotomus sepium** Horsf.

Ashy Tailor-Bird.

**Orthotomus sepium sepium** Horsf.

*Orthotomus sepium* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 166: Java.

*Distr.*—Java; Bali.

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<sup>1</sup> For this unfortunate, but necessary, change of name from *O. ruficeps* which must be transferred to the bird formerly well-known as *O. cineraceus*, see Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 87.

**Orthotomus sepium ruficeps** (Less.).

*Edela ruficeps* Lesson, *Traité d'Orn.* 1831, p. 309: Australia, error=Sumatra (Rob. and Kloss, 1923).

*Orthotomus cineraceus* Blyth, *Journ. Asiat. Soc. Bengal*, xiv, 1845, p. 589: Malacca.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Banka.

Java (part); Bawean Island; Kangean Islands.

**Orthotomus sepium palliolatus**<sup>1</sup> Chas. and Kloss.

*Orthotomus sepium palliolatus* Chasen and Kloss, *Treubia*, xiv, 1933, p. 170: Karimon-Java Island.

*Distr.*—Karimon-Java Islands.

**Orthotomus sepium borneonensis** Salvad.

*Orthotomus borneonensis* Salvadori, *Ann. Mus. Civ. Gen.* v, 1874, p. 247: Sarawak.

*Distr.*—Borneo; Billiton (? subsp.).

**\*Orthotomus sepium baeus** Oberh.

*Orthotomus cineraceus baeus* Oberholser, *Smiths. Misc. Coll.* 1x, No. 7, 1912, p. 13: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Orthotomus sepium concinnus** Riley.

*Orthotomus sepium concinnus* Riley, *Proc. Biol. Soc. Wash.* xl, 1927, p. 96: Sipora Island.

*Distr.*—Siberut and Sipora Islands, West Sumatra.

**Orthotomus sepium ochrommatus** Oberh.

*Orthotomus cineraceus ochrommatus* Oberholser, *Smiths. Misc. Coll.* 1x, No. 7, 1912, p. 13: North Pagi Island.

*Distr.*—Pagi Islands, West Sumatra.

Genus **PHYLLERGATES** Sharpe.**Phyllergates cucullatus** (Temm.).<sup>2</sup>

Ashy-naped Warbler.

**Phyllergates cucullatus cucullatus** (Temm.).

*Orthotomus euculatus* (sic) Temminck, *Pl. Col.* 599, 1836: Java.

*Phyllergates sumatranus* Salvad., *Ann. Mus. Civ. Gen.* (2) xii, 1891, p. 67: Sumatra.

*Distr.*—Sumatra.

Java; Bali.

<sup>1</sup> Bartels and Stresemann (1929) consider that the lowlands of the north coast of Java are occupied by "*cineraceus*" (= *ruficeps*): we have seen no specimens, but the race is not improbably *palliolatus*. Birds from Bawean and Kangean Islands also require re-examination.

<sup>2</sup> Cf. Stres., *Nov. Zool.* xix, 1912, p. 341; Rob. and Kloss, *Journ. F.M.S. Mus.* viii (pt. 2), 1918, p. 219.

**Phyllergates cucullatus cinereicollis** Sharpe.<sup>1</sup>

*Phyllergates cinereicollis* Sharpe, Ibis, 1888, p. 479: Mt. Kinabalu, North Borneo.

*Distr.*—Malay States.  
Borneo.

**Phyllergates cucullatus thais** Rob. and Kloss.

*Phyllergates cucullatus thais* Robinson and Kloss, Journ. Fed. Mal. States Mus. xi, 1923, p. 56: Nakon Sritamarat, Peninsular Siam.

*Distr.*—Peninsular Siam.

Genus **CISTICOLA** Kaup.<sup>2</sup>**Cisticola juncidis** (Rafin.).

Streaked Fantail Warbler.

[**Cisticola juncidis juncidis** (Rafin.).

*Sylvia juncidis* Rafinesque, Caratteri Anim. d. Scilia, 1810, p. 6: Sicily.

*Distr.*—Extra-limital.]

**Cisticola juncidis malaya** Lynes.

*Cisticola juncidis malaya* Lynes, Ibis, 1930, suppl. p. 92: Klang, Malay Peninsula.

*Distr.*—Malay Peninsula.  
Sumatra; Billiton; Simalur Island, West Sumatra.  
Java (west).

**Cisticola juncidis fuscicapilla** Wall.

*Cisticola fuscicapilla* Wallace, Proc. Zool. Soc. 1863, p. 489: Timor.

*Distr.*—Java (east); Bali; Kangean Islands.

**Cisticola exilis** (Vig. and Horsf.).

Red-headed Fantail Warbler.

[**Cisticola exilis exilis** (Vig. and Horsf.).

*Malurus exilis* Vigors and Horsfield, Trans. Linn. Soc. xv, 1827, p. 223: New South Wales.

*Distr.*—Extra-limital.]

**Cisticola exilis lineocapilla** Gould.

*Cysticola lineocapilla* Gould, Proc. Zool. Soc. 1847, p. 1: Northern Territory, Australia.

*Cisticola delicatula* Blyth, Ibis, 1870, p. 170: Java.

*Distr.*—Java (east); Bali.

<sup>1</sup> Purely from a geographical point of view the division of the southern forms of this species here proposed is a little unsatisfactory, but the skins examined seem to fall into the above arrangement, *cinereicollis* being very slightly paler on the grey hind-neck and the green mantle than *cucullatus*. The distinctions, however, are very fine.

<sup>2</sup> Revision, Lynes, Ibis, 1930, suppl. no.

Genus **FRANKLINIA** Jerdon.

**Franklinia rufescens** (Blyth). Wren-Warbler.

**Franklinia rufescens rufescens** (Blyth).

*Prinia rufescens* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p. 456: Arracan.

*Distr.*—Malay Peninsula.

Genus **MEGALURUS** Horsfield.

**Megalurus palustris** Horsf. Striated Marsh-Warbler.

**Megalurus palustris palustris** Horsf.

*Megalurus palustris* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 159: Java.

*Malurus marginalis* "Reinw."—Temm. Pl. Col. 65, fig. 2, 1822: Java.

*Megalurus citrinus* Gray, Gen. Birds, i, 1848, p. 162, pl. 48: Java.

*Turdus takko* Horsfield and Moore, Cat. Bds. Mus. E. I. Coy., i, 1854, p. 330: nom. nud. as syn.

*Distr.*—Java; Bali.

Genus **BRADYPTERUS** Swainson.

**Bradypterus montis** (Hart.). Doherty's Warbler.

*Stasiasticus montis* Hartert, Nov. Zool. iii, 1896, p. 540: Mt. Ardjuno, East Java.

*Distr.*—Java.

Genus **PHRAGAMATICOLA** Jerdon.

**Phragamaticola aëdon** (Pall.). Thick-billed Warbler.

[**Phragamaticola aëdon aëdon** (Pall.).

*Muscicapa Aëdon* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 695: Dauria.

*Distr.*—Extra-limital.]

**Phragamaticola aëdon rufescens** Steg.

*Phragamaticola aëdon rufescens* Stegmann, Journ. f. Orn. lxxvii, 1929, p. 230: East Siberia.

*Distr.*—Peninsular Siam.<sup>1</sup>

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<sup>1</sup> Birds examined from various parts of Siam are all this small form.



Genus **PHYLLOSCOPUS** Boie.**Phylloscopus borealis** (Blas.). Arctic Willow-Warbler.**Phylloscopus borealis borealis** (Blas.).*Phyllopneuste borealis* Blasius, Naumannia, 1858, p. 313: Lake Ochotska.*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Anamba Islands; Nias Island, West Sumatra.

Borneo; Natuna Islands.

Java; Karimon-Java Islands.

**Phylloscopus borealis examinandus** Stres.*Phylloscopus borealis examinandus* Stresemann, Nov. Zool. xx, 1913, p. 353: Bali.*Distr.*—Bali.**Phylloscopus borealis xanthodryas** Swinh.<sup>2</sup>*Phyllopneuste xanthodryas* Swinhoe, Proc. Zool. Soc. 1863, p. 296: Amoy.*Distr.*—? Sumatra.

Borneo.

Java.

**Phylloscopus nitidus** Blyth.

Green Willow-Warbler.

**[Phylloscopus nitidus nitidus** Blyth.*Phylloscopus nitidus* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p. 965: Calcutta.*Distr.*—Extra-limital.]**Phylloscopus nitidus plumbeitarsus** Swinh.*Phylloscopus plumbeitarsus* Swinhoe, Ibis, 1861, p. 330: between Taku and Peking.*Distr.*—Peninsular Siam.**Phylloscopus tenellipes** Swinh.<sup>3</sup>

Pale-legged Willow-Warbler.

*Phylloscopus tenellipes* Swinhoe, Ibis, 1860, p. 53: Amoy.*Distr.*—Peninsular Siam.<sup>1</sup> C. B. Ticehurst (in litt.) "to me not recognizable".<sup>2</sup> Some of our own previous records of *xanthodryas* from various parts of Malaysia, and those of some other authors, we now consider as very doubtful, for it appears that the character of a relatively large first primary will not always separate it from *b. borealis*. We have, however, seen birds from Borneo quite clearly belonging to *xanthodryas*.<sup>3</sup> Hume has recorded *P. magnirostris* Blyth from near Malacca, but as the species has not again been obtained we have omitted it from the list pending confirmation.

**Phylloscopus occipitalis** (Blyth). Larger Crowned Willow-Warbler.  
[**Phylloscopus occipitalis occipitalis** (Blyth).]

*Phyllopneuste occipitalis* Blyth, Journ. As. Soc. Beng. xiv, 1845,  
p. 593 : South India.

*Distr.*—Extra-limital.]

**Phylloscopus occipitalis coronatus** (Temm. and Schleg.).

*Ficedula coronata* Temminck and Schlegel, Fauna Japon., Aves,  
1847, p. 48, pl. 18 : Japan.

*Distr.*—Malay Peninsula.

Sumatra.

Java.

**Phylloscopus inornatus** (Blyth). Crowned Willow-Warbler.

**Phylloscopus inornatus inornatus** (Blyth).

*Regulus inornatus* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p.  
191 : India.

*Distr.*—Malay Peninsula.

### Genus **SEICERCUS** Swainson.

**Seicercus trivirgatus** (Strickl.). Green Flycatcher-Warbler.

**Seicercus trivirgatus trivirgatus** (Strickl.).<sup>1</sup>

*Phylloscopus trivirgatus* Strickland, Contrib. Orn. 1849, p. 123, tab.  
34, p. 123 : Java.

*Distr.*—Sumatra.

Borneo.

Java; Bali.

**Seicercus trivirgata parvirostris** (Stres.).

*Phylloscopus trivirgatus parvirostris* Stresemann, Nov. Zool. xix,  
1912, p. 322 : Mt. Tahan, Malay Peninsula.

*Distr.*—Malay States.

**Seicercus trivirgatus kinabaluensis** (Sharpe).<sup>2</sup>

*Cryptolopha kinabaluensis* Sharpe, Bull. Brit. Ornith Cl. ii, 1901,  
p. 60 : Mt. Kinabalu, North Borneo.

*Distr.*—Mt. Kinabalu, North Borneo.

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<sup>1</sup> We have very large series of this bird from Malaysia but are still a little doubtful about the name of the Sumatran race : it is really intermediate with a leaning to the Javan form on balance of characters. In Sarawak a form very near to *trivirgatus* and quite distinct from *kinabaluensis* occurs. It seems likely that further material will show it to be rather brighter than typical *trivirgatus*.

<sup>2</sup> Diverse opinions have been published about this form. I have now seen about one-hundred birds from Mt. Kinabalu. Normally, *kinabaluensis* is a rather dull, olive-green race, much duller when in worn plumage and always very different from typical *trivirgatus*. At the top of the mountain I collected birds quite grey in colour, without a trace of yellow, or green in the plumage. The question is complicated by the fact that rare *mutants* (not merely birds in very fresh plumage) occur which in colour are inseparable from *S. t. trivirgatus*.

**Seicercus castaniceps** (Blyth). Chestnut-headed Flycatcher-Warbler.

[**Seicercus castaniceps castaniceps** (Blyth).

*Abrornis castaniceps* Blyth, Journ. Asiat. Soc. Beng. xiv, pt. 2, 1845, p. 593 : Nepal.

*Distr.*—Extra-limital.]

**Seicercus castaniceps youngi** (Rob.).

*Cryptolopha youngi* Robinson, Journ. Fed. Mal. States Mus. v, 1915, p. 100 : Bandon, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Seicercus castaniceps muelleri** Rob. and Kloss.

*Cryptolopha muelleri* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. No. 73, 1916, p. 278 : Korinchi, West Sumatra.

*Distr.*—Sumatra.

**Seicercus castaniceps butleri** (Hart.).

*Cryptolopha butleri* Hartert, Bull. Brit. Orn. Cl. vii, 1898, p. 50 : Mt. Ijau, Perak.

*Distr.*—Malay States.

**Seicercus grammiceps** (Strickl.). Sunda-Island Flycatcher-Warbler.

**Seicercus grammiceps grammiceps** (Strickl.).

*Pycnosphrys grammiceps* Strickland, Contr. Orn. 1849, p. 124 : Java.

*Sylvia leucorrhoa* Blyth, Ibis, 1870, p. 169 : Java.

*Distr.*—Java; Bali.

**Seicercus grammiceps sumatrensis** (Rob. and Kloss).

*Cryptolopha sumatrensis* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. No. 73, 1916, p. 277 : Korinchi, West Sumatra.

*Distr.*—Sumatra.

**Seicercus montis** (Sharpe). Yellow-breasted Flycatcher-Warbler.

**Seicercus montis montis** (Sharpe).

*Cryptolopha montis* Sharpe, Ibis, 1887, p. 442 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Seicercus montis davisoni** (Sharpe).

*Chryptolopha davisoni* Sharpe, Proc. Zool. Soc. 1888, p. 271 : Perak, Malay Peninsula.

*Distr.*—Malay States.

**Seicercus montis inornata** (Rob. and Kloss).

*Cryptolopha montis inornata* Robinson and Kloss, Journ. Straits Br. Roy. Asiat. Soc. No. 81, 1920, p. 99: Korinchi, West Sumatra.  
Distr.—Sumatra.

Genus **ABROSCOPUS** Stuart Baker.

**Abroscopus superciliaris** (Blyth). Bamboo Flycatcher-Warbler.

**Abroscopus superciliaris superciliaris** (Blyth).

*Abornis superciliaris* Blyth, Journ. Asiat. Soc. Beng. xxviii, 1859, p. 414: Tenasserim.  
Distr.—Peninsular Siam.<sup>1</sup>

**Abroscopus superciliaris schwaneri** (Blyth).

*Abornis schwaneri* Blyth, Ibis, 1870, p. 169: Borneo.  
*Abornis sakaorum* Stresm., Bull. Brit. Orn. Cl. xxxi, 1912, p. 27: Perak—Pahang boundary, Malay States.  
Distr.—Malay States.  
Sumatra.  
Borneo.

**Abroscopus superciliaris vordermani** (Büttik.).

*Cryptolopha Vordermani* Büttikofer, Notes Leyd. Mus. xv, 1893, p. 260: East Java.  
Distr.—Java.

Genus **CETTIA** Bonaparte.

**Cettia montana** (Horsf.). Bush-Warbler.

**Cettia montana montana** (Horsf.).

*Sylvia montana* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 156: Java.  
*Sylvia vulcania* Blyth, Ibis, 1870, p. 170: Java (nom. nud.).  
Distr.—Java; Bali.

**Cettia montana sumatrana** O.-Grant.

*Cettia sumatrana* Ogilvie-Grant, Bull. Brit. Orn. Cl. xxxvi, 1916, p. 66: Korinchi, West Sumatra.  
Distr.—Sumatra (not north).

**Cettia montana sepiaria** Kloss.

*Cettia montana sepiaria* Kloss, Treubia, xiii, 1931, p. 352: Acheen, North Sumatra.  
Distr.—Sumatra (north).

<sup>1</sup> The birds I here call *A. s. superciliaris* are like *schwaneri* in colour but larger: they are therefore perhaps not true *superciliaris*, but intermediate, or an undescribed race.

SYLVIIDÆ.

**Cettia montana oreophila** Sharpe.

*Cettia oreophila* Sharpe, Ibis, 1888, p. 387: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (part).

**Cettia montanus banksi** Chas.

*Cettia montanus banksi* Chasen, Ornith. Monatsber. 1935, p. 147: Mt. Mulu, N. Sarawak.

*Distr.*—Borneo (part).

Genus **UROSPHENA** Swinhoe.

**Urosphena squameiceps** (Swinh.). Swinhoe's Reed-Warbler.

**Urosphena squameiceps squameiceps** (Swinh.).

*Tribura squameiceps* Swinhoe, Proc. Zool. Soc. 1863, p. 292: Canton.

*Distr.*—Peninsular Siam.

Genus **SUYA** Hodgson.

**Suya atrogularis** Horsf. and Moore. Hill-Warbler.

[**Suya atrogularis atrogularis** Horsf. and Moore.

*Suya atrogularis* Horsfield and Moore, Cat. Birds Mus. East Ind. Coy. 1, 1854, p. 326: Darjeeling.

*Distr.*—Extra-limital.]

**Suya atrogularis albogularis** Hume.

*Suya albogularis* Hume, Stray Feathers, 1, 1873, p. 459: Acheen, Sumatra.

\* ? *Burnesia dysancrita* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 14: Loh Sidoh Bay, North-west Sumatra.

*Distr.*—Sumatra.

**Suya atrogularis waterstradti** Hart.

*Suya waterstradti* Hartert, Nov. Zool. ix, 1902, p. 568: Mt. Tahan, Malay States.

*Distr.*—Malay States.

Genus **PRINIA** Horsfield.

**Prinia inornata** Sykes. Wren-Warbler.

[**Prinia inornata inornata** Sykes.

*Prinia inornata* Sykes, Proc. Zool. Soc. 1832, p. 89: Dukhun.

*Distr.*—Extra-limital.]

**Prinia inornata blythi** (Bp.).*Suya blythi* Bonaparte, Consp. Gen. Avium, i, 1850, p. 281: Java.

Distr.—Java.

**Prinia polychroa** (Temm.).

Javan Wren-Warbler.

*Malurus polychrous* Temminck, Pl. Col. 466, 1828: Java.

Distr.—Java.

**Prinia familiaris** Horsf.

Bar-winged Wren-Warbler.

**Prinia familiaris familiaris** Horsf.*Prinia familiaris* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 165: Java, restr. Province of Besoeki (*Kloss*, 1931).*Orthotomus prinia* Temm., Pl. Col. text to pl. 599, 1836, Java.

Distr.—Java (east); Bali.

**Prinia familiaris olivacea** (Raff.).*Motacilla olivacea* Raffles, Trans. Linn. Soc. xiii, 1822, p. 313: Sumatra.

Distr.—Sumatra.

Java (west); ? Karimon-Java Islands.

**Prinia flaviventris** (Deless.).

Yellow-bellied Wren-Warbler.

[**Prinia flaviventris flaviventris** (Deless.).*Orthotomus flaviventris* Delessert, Rev. Mag. Zool. 1840, p. 101: Bhutan.

Distr.—Extra-limital.]

**Prinia flaviventris rafflesi** Tweed.*Prinia rafflesi* Tweeddale, Ibis, 1877, p. 311, pl. vi, fig. 1: Lampongs, South Sumatra.*Prinia hypoxantha* Salvad., Ann. Mus. Civ. Gen. xiv, 1879, p. 235: Sumatra.

Distr.—Malay Peninsula.

Sumatra.

Java.

**Prinia flaviventris superciliaris** Salvad.*Prinia superciliaris* Salvadori, Ann. Mus. Civ. Gen. v, 1874, p. 249: Sarawak.

Distr.—Borneo.

**Prinia flaviventris halistona** (Oberh.).*Burnesia dysancrita halistona* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 14: Nias Island.

Distr.—Nias Island, West Sumatra.

## Family ARTAMIDÆ.

### Genus ARTAMUS Vieillot.

**Artamus leucorhynchus** (Linn.).<sup>1</sup> Swallow-Shrike.

**Artamus leucorhynchus leucorhynchus** (Linn.).

*Lanius leucorhynchus*. Linn., Mant. Plant. 1771, p. 524: Manila, Philippine Islands.

*Artamus leucorhynchus macroterus* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 53: Sirhassen Island, Natuna Islands.

*Distr.*—Borneo; North Bornean Islands; Maratua Islands; Mantanani Island; Natuna Islands.

**Artamus leucorhynchus amydrus** Oberh.

*Artamus leucorhynchus amydrus* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 185: Solombo Besar Island, Java Sea.

*Distr.*—Sumatra; Banka; Billiton; Mendanao.

Java; Bali; Kangean Islands; Solombo Besar Island; Karimon-Java Islands.

## Family LANIIDÆ.

### Genus HEMIPUS Hodgson.

**Hemipus hirundinaceus** (Temm.). Black-winged Pied Shrike.

*Muscicapa hirundinacea* "Reinw." Temminck, Pl. Col. 119, 1823: Java.

*Muscicapa obscura* Horsf. (not Gmelin, 1789), Trans. Linn. Soc. xiii, 1821, p. 146: Java.

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Nias; Billiton.

Borneo; Banguay Island.

Java; Bali.

**Hemipus picatus** (Sykes). Bar-winged Pied Shrike.

**Hemipus picatus picatus** (Sykes).

*Muscicapa picata* Sykes, Proc. Zool. Soc. 1832, p. 85: Dukhun.

*Hemipus intermedius* Salvad., Ann. Mus. Civ. Gen. xiv, 1879, p. 209: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

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<sup>1</sup> Cf. Stres., Nov. Zool. xx, 1913, p. 289.

Genus **TEPHRODORNIS** Swainson.

**Tephrodornis gularis** (Raffl.).

Wood-Shrike.

**Tephrodornis gularis gularis** (Raffl.).

*Lanius gularis* Raffles, Trans. Linn. Soc. xiii, 1822, p. 304 :  
Bencoolen, West Sumatra.

*Lanius virgatus* Temm., Pl. Col. 256, fig. i, 1824 : Java.

*Distr.*—Sumatra (south-west coastlands).  
Java.

**Tephrodornis gularis fretensis** Rob. and Kloss.

*Tephrodornis gularis fretensis* Robinson and Kloss, Journ. Straits  
Branch Royal Asiat. Soc. 81, 1920, p. 109 : Negri Sembilan,  
Malay States.

*Distr.*—Malay States.<sup>1</sup>  
Sumatra (except south-west).

**Tephrodornis gularis annectens** Rob. and Kloss.

*Tephrodornis pelvica annectens* Robinson and Kloss, Journ. F.M.S.  
Mus. viii, pt. 2, 1918, p. 222 : Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Tephrodornis gularis frenatus** Büttik.

*Tephrodornis frenatus* Büttikofer, Notes Leyd. Mus. ix, 1887, p. 53 :  
Borneo.

*Distr.*—Borneo.

Genus **PLATYLOPHUS** Swainson.

**Platylophus galericulatus** (Cuv.).

Jay-Shrike.

**Platylophus galericulatus galericulatus** (Cuv.).

*Lanius galericulatus* Cuvier, Règne Anim. i, 1817, p. 399 : Java.

*Lanius scapularis* Licht., Verz. Doubl. 1823, p. 49 : Java.

*Vanga cristata* Griff., An. Kingd. Birds, i, pl. to p. 486, 1829 : Java.

*Distr.*—Java.

**Platylophus galericulatus ardesiacus** (Bp.).

*Lophocitta ardesiaca* Bonaparte, Consp. Avium, i, 1850, p. 374 :  
"Java?" error = Malacca (Robinson and Kloss, 1924).

*Distr.*—Malay Peninsula.

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<sup>1</sup> The form found in Patani, South Peninsular Siam is perhaps nearer to *fretensis* than to *annectens*.



LANIIDÆ.

**Platylophus galericulatus coronatus** (Raffl.).

*Lanius coronatus* Raffles, Trans. Linn. Soc. xiii, 1822, p. 306 : Sumatra.

*Lophocitta histronica* Bp., Proc. Zool. Soc. 1850, p. 79 : Sumatra.

*Garrulus rufulus* Schl., Handl. Dierk. i, 1857, p. 327 : Sumatra.

*Distr.*—Sumatra.

Borneo (not north).

**Platylophus galericulatus lemprieri** Nich.

*Platylophus lemprieri* Nicholson, Ibis, 1883, p. 88 : Sandakan Bay, North Borneo.

*Distr.*—Borneo (north).

Genus **PITYRIASIS** Lesson.

**Pityriasis gymnocephala** (Temm.).

Bald Shrike.

*Barita gymnocephala* Temminck, Pl. Col. 572, 1835 : Borneo.

*Distr.*—Borneo.

Genus **CROCIAS** Temminck.

**Crocias guttatus** Temm.

Spotted Shrike.

*Crocias guttatus* Temminck, Pl. Col. 592, 1836 : Java.

*Laniellus leucogrammicus* Swains., in Rich., F. Bor.-Amer. (2), 1832, p. 481 : nom. nud.

*Distr.*—Java.

Genus **LANIUS** Linn.

**Lanius tigrinus** Drap.

Thick-billed Shrike.

*Lanius tigrinus* Drapiez, Dict. Class. Hist. Nat. xiii, 1828, p. 523 : Java.

*Lanius ferox* Drap., Dict. Class. Hist. Nat. xiii, 1828, p. 523 : Java.

*Lanius strigatus* Eyton, Proc. Zool. Soc. 1839, p. 103 : Malacca.

*Enneoctonus crassirostris* Bp., Consp. Gen. Avium, 1850, p. 362 : Java (nom. nud.).

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Mentawi Islands and Simalur, West Sumatra.

Borneo.

Java.

**Lanius cristatus**<sup>1</sup> Linn. Brown Shrike.

**Lanius cristatus cristatus** Linn.

*Lanius cristatus* Linn., Syst. Nat. 10th. ed. 1758, p. 93 : Bengal.

Distr.—Malay Peninsula; Anamba Islands.

? Sumatra.

Borneo.

**Lanius cristatus lucionensis** Linn.

*Lanius lucionensis* Linn., Syst. Nat. 12th. ed. i, 1766, p. 135 :  
Luzon, Philippine Islands.

*Enneoctonus schwaneri* Bp., Consp. Gen. Avium, i, 1850, p. 363 : Borneo.

Distr.—Malay States.

Sumatra.

Borneo.

**Lanius cristatus superciliosus** Lath.

*Lanius superciliosus* Latham, Ind. Orn. Suppl. 1801, p. 20 : Java.

Distr.—Malay Peninsula; Anamba Islands.

Sumatra.

Borneo.

Java; Bali; Karimon-Java Islands.

**Lanius cristatus confusus** Stegm.

*Lanius cristatus confusus* Stegmann, Journ. f. Orn. 1929, p. 248 :  
Amurland.

Distr.—Malay Peninsula.

**Lanius schach** Linn.

Grey-backed Shrike.

[**Lanius schach schach** Linn.

*Lanius schach* Linn., Syst. Nat. 10th. ed. 1758, p. 94 : China.

Distr.—Extra-limital.]

**Lanius schach bentet** Horsf.<sup>2</sup>

*Lanius Bentet* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 144 : Java.

*Lanius pyrrhonotus* Vieill. and Oudart, Gal. des Ois. i, 1825, p. 219,  
pl. 135 : "Grandes Indes" = Java (*Mathews*, 1930).

*Lanius macrourus* Cuv., fide Less., Traité d'Orn. 1831, p. 372 : Java.

*Lanius schach tosariensis* Kuroda, Tori, vi, 1930, p. 76 : Tosari, East  
Java.

Distr.—Malay States.

Sumatra.

Java; Bali; Kangean Islands.

<sup>1</sup> Review : Steg., Orn. Monatsber. xxxviii, 1930, p. 115.

<sup>2</sup> There seems to be no reliable record of *Lanius schach bentet* from Borneo.

**Lanius nasutus** (Scop.). Philippine Grey-backed Shrike.

**Lanius nasutus nasutus** Scop.

*Lanius nasutus* Scopoli, Del. Flor. Faun. Insubr. ii, 1786, p. 85:  
Panay, Philippine Islands.

*Distr.*—Borneo (north).

Genus **PACHYCEPHALA** Vigors.

**Pachycephala pectoralis** (Lath.). Thick-head, or Golden Whistler.

[**Pachycephala pectoralis pectoralis** (Lath.).

*Muscicapa pectoralis* Latham, Index Orn. Suppl. 1801, p. 51: New  
South Wales.

*Distr.*—Extra-limital.]

**Pachycephala pectoralis javana** Hart.

*Pachycephala pectoralis javana* Hartert, Bull. Brit. Orn. Cl. xlviii,  
1928, p. 88: Mt. Ardjuno, East Java.

*Distr.*—Java (east); Bali.<sup>1</sup>

**Pachycephala cinerea** (Blyth).<sup>2</sup> Mangrove Flycatcher-Shrike.

[**Pachycephala cinerea cinerea** (Blyth).<sup>3</sup>

*Muscitrea cinerea* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p.  
122: Island of Ramree, Arracan.

*Distr.*—Extra-limital.]

**Pachycephala cinerea butaloides** Stres.

*Pachycephala grisola butaloides* Stresemann, Treubia, xi, 1929,  
p. 135: Bolang, West Java.

*Muscicapa philomela* Cab., Arch. f. Naturg., ii, 1847, p. 322: Java  
(nom. nud.).

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Mentawi Islands, W. Sumatra.  
Borneo (not north); Karimata Islands.

Java; Bali; Kangean Islands; Karimon-Java Islands.

**Pachycephala cinerea secedens** Stres.

*Pachycephala grisola secedens* Stresemann, Nov. Zool. xx, 1913,  
p. 355: Sirhassen Island, South Natuna Islands.

*Distr.*—Borneo (north); North Bornean Islands; Maratua Islands;  
Natuna Islands; Karimata Islands.

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<sup>1</sup> Rensch considers that the Bali bird is *P. p. javana fulvotincta* Wall. (Flores).

<sup>2</sup> This is a most difficult bird to understand and in spite of good series in our possession the racial divisions here adopted can only be regarded as tentative: cf. Chas. and Kl., Bull. Raff. Mus. 4, 1930, p. 50.

<sup>3</sup> We do not see how *Tephrodornis grisola* Blyth (Calcutta) can be applied to this bird.

\***Pachycephala cinerea nesiotis** (Oberh.).

*Muscitrea grisola nesiotis* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 11: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

\***Pachycephala cinerea vandepolli** Finsch.

*Pachycephala Vandepolli* Finsch, Notes Leyden Mus. xx, 1899, p. 224: Tello Island, Batu Islands.

*Distr.*—Batu Islands, West Sumatra.

**Pachycephala hypoxantha** (Sharpe). Kinabalu Flycatcher-Shrike.

**Pachycephala hypoxantha hypoxantha** (Sharpe).

*Hyloterpe hypoxantha* Sharpe, Ibis, 1887, p. 451: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (part).

**Pachycephala hypoxantha sarawacensis** Chas.

*Pachycephala hypoxantha sarawacensis* Chasen, Bull. Raffles Mus. 10, 1935, p. 44: Mt. Poi, Sarawak.

*Distr.*—Borneo (mountains of West Sarawak).

## Family PARIDÆ.

### Genus MELANOCHLORA Lesson.

**Melanochlora sultanea** (Hodgs.).

Sultan-Tit.

[**Melanochlora sultanea sultanea** (Hodgs.).

*Parus sultaneus* Hodgson, Indian Review, 1836, p. 31: Nepal.

*Distr.*—Extra-limital.]

**Melanochlora sultanea flavocristata** (Laf.).

*Parus flavocristatus* Lafresnaye, Mag. Zool. Cl. 2, 1837, p. 180: "Isles de la Sonde"—Sumatra (Rob. and Kloss, 1918).

*Melanochlora sumatrana* Less., Rev. Mag. Zool. 1839, p. 42: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

### Genus PARUS Linn.

**Parus major** Linn.

Great Tit.

[**Parus major major** Linn.

*Parus major* Linn., Syst. Nat. 10th. ed. 1758, p. 189: Sweden, Europe.

*Distr.*—Extra-limital.]

**Parus major cinereus** Vieill.

*Parus cinereus* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xx, 1818, p. 316: Batavia, West Java.

*Parus atriceps* Horsf., Trans. Linn. Soc. xiii, 1821, p. 160: Java.

*Distr.*—Java; Bali.

**Parus major ambiguus** (Raffles.).

*Turdus ambiguus* Raffles, Trans. Linn. Soc. xiii, 1821, p. 313 : Sumatra.

*Parus major malayorum* Robinson and Kloss, Journ. Fed. Malay States Mus. viii, pt. 2, 1918, p. 226 : Korinchi, West Sumatra.

*Distr.*—Malay Peninsula.  
Sumatra.

**Parus major cinerascens** Slater.

*Parus cinerascens* H. H. Slater, Ibis, 1885, p. 122, pl. 4 : Sarawak.

*Parus sarawacensis* H. H. Slater, Ibis, 1885, p. 327 : new name only.

*Distr.*—Borneo.

Genus **PSALTRIA** Temminck.

**Psaltria exilis** Temm.

Pygmy Tit.

*Psaltria exilis* Temminck, Pl. Col. 600, 1836 : Java.

*Distr.*—Java.

Family **SITTIDÆ**.

Genus **SITTA** Linn.<sup>1</sup>

**Sitta frontalis** (Swains.).

Velvet-fronted Nuthatch.

**Sitta frontalis frontalis** (Swains.).

*Orthorhynchus frontalis* Swainson, Zool. Ill. i, 1820, pl. 2 : Ceylon.

*Sitta frontalis* Horsf., Trans. Linn. Soc. xiii, 1821, p. 162 : Java.

*Sitta velata* Temm., Pl. Col. 72, 1821 : Java.

*Sitta frontalis hageni* Parrot, Abh. Kon. Bay. Akad. Wiss. xxiv, 1907, p. 244 : Banka.

*Distr.*—Peninsular Siam (north).  
Sumatra (south); Lingga; Banka.  
Java.

**Sitta frontalis saturator** Hart.

*Sitta frontalis saturator* Hartert, Nov. Zool. ix, 1902, p. 573 : Mt. Tahan, Malay States.

*Distr.*—Peninsular Siam (south); Malay States.  
Sumatra (north).

**Sitta frontalis corallipes** (Sharpe).

*Dendrophila corallipes* Sharpe, Ibis, 1888, p. 479 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo; Maratua Islands, East Borneo.

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<sup>1</sup> *Sitta longirostra* Lath., Index Orn. 1790, p. 264 (Batavia) is a puzzle. It may be the earliest name for the bird now known as *Sitta frontalis*, but the description, taken from a drawing, is not good and the size too large. The description fits *Tephrodornis gularis* fairly well, but Latham surely knew a nuthatch !

**Sitta azurea** Less.

Blue Nuthatch.

**Sitta azurea azurea** Less.*Sitta azurea* Lesson, *Traité d'Orn.* 1830, p. 316: Java (Hart., 1914; restr. East Java, Mt. *Ardjuno*, Rob. and Kloss, 1919).*Dendrophila flavipes* Swains., *Anim. in Menag.* 1837, p. 323: India, error=Java.<sup>1</sup>*Dendrophila gymnophrys* Reichenb., *Handb. Scans.* 1853, p. 154: Java.*Distr.*—Java (east).**Sitta azurea nigriventer** (Rob. and Kloss).*Poliositta azurea nigriventer* Robinson and Kloss, *Bull. Brit. Orn. Cl.* xl, 1919, p. 17: Mt. Gede, West Java.*Distr.*—Java (west).**Sitta azurea expectata** (Hart.).*Callisitta azurea expectata* Hartert, *Bull. Brit. Orn. Cl.*, xxxv, 1914, p. 34: Pahang, Malay States.*Distr.*—Malay States.  
Sumatra.Family ZOSTEROPIDÆ.<sup>2</sup>Genus **ZOSTEROPS** Vigors and Horsfield.<sup>3</sup>**Zosterops palpebrosa** (Temm.).<sup>4</sup>

White-eye.

**[Zosterops palpebrosa palpebrosa** (Temm.).*Sylvia palpebrosa* Temminck, *Pl. Col.* 293, fig. 3, 1824: India.*Distr.*—Extra-limital.]**Zosterops palpebrosa williamsoni** Rob. and Kloss.<sup>5</sup>*Zosterops palpebrosa williamsoni* Robinson and Kloss, *Journ. Nat. Hist. Soc. Siam*, iii, 1919, p. 445: Meklong, Central Siam.*Distr.*—Malay Peninsula (lowlands).  
Rhio Archipelago.<sup>1</sup> Mathews, 1930, restricts the type locality to Timor, but the species seems not to occur there.<sup>2</sup> Revision: Stres., *Mitt. Zool. Mus. Berl.* xvii, 1931, p. 201.<sup>3</sup> In addition to the species listed *Zosterops japonica simplex* Swinh., occurs on Singapore Island: we have handled locally shot specimens in the flesh and have also seen it in the Botanic Gardens. We regard these birds as introduced specimens. The species is imported in large numbers.<sup>4</sup> There seems no reason why the Malaysian forms of *Zosterops*, variously referred to the "species" *palpebrosa* and *aureiventer* should not be grouped in a species. Broadly speaking, the grey-bellied "*aureiventer*" birds are mountain forms, whereas the pale-bellied *palpebrosa* forms live in the lowlands.<sup>5</sup> It is just possible that birds from the south of the Malay Peninsula should be separated from true *williamsoni*.

**Zosterops palpebrosa aureiventer** Hume.

*Zosterops aureiventer* Hume, Stray Feathers, vi, 1878, p. 519 : Tavoy.

*Zosterops tahanensis* O.-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 10 : Mt. Tahan, Malay States.

*Distr.*—Malay Peninsula (mountains).

**Zosterops palpebrosa sumatrana** Kloss.

*Zosterops palpebrosa sumatrana* Kloss, Treubia, xiii, 1931, p. 369 : Korinchi Valley, West Sumatra.

*Distr.*—Sumatra.

**Zosterops palpebrosa media** Rob. and Kloss.

*Zosterops aureiventer media* Robinson and Kloss, Ibis, 1923, p. 152 : Samarahan, Sarawak.

*Zosterops aureiventer parvus* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 56 : Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Zosterops palpebrosa erwini** Chas.

*Zosterops palpebrosa erwini* Chasen, Bull. Raffles Mus. no. 9, 1934, p. 96 : Pulau Panjang, South Natuna Islands.

*Distr.*—South Natuna Islands.

**Zosterops palpebrosa buxtoni** Nich.

*Zosterops buxtoni* Nicholson, Ibis, 1879, p. 167 : West Java.

*Zosterops lateralis* Hartl. (not Lath. 1801) Journ. f. Orn. 1865, p. 15 : Java.

*Distr.*—Borneo (part).<sup>1</sup>

Java (west and central).

**\*Zosterops palpebrosa salvadorii** Mey. and Wigl.

*Zosterops salvadorii* A. B. Meyer and Wiglesworth, Journ. f. Orn. 1894, p. 115 : Engano Island.

*Zosterops incerta* Salvad. (not Meyer), Ann. Mus. Civ. Gen. (2) xxxii, 1892, p. 133 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

**Zosterops natalis**<sup>2</sup> Lister.

Christmas Island White-eye.

*Zosterops natalis* Lister, Proc. Zool. Soc. 1888, p. 518, pl. 27 : Christmas Island.

*Distr.*—Christmas Island, Indian Ocean; Cocos-Keeling Islands (introduced).

<sup>1</sup> Stresemann (1931) seems to be the first to recognize this, or a closely allied form of *Zosterops* in Borneo, and refers some skins from the mountains of West Sarawak to *buxtoni*. We have recently examined some skins from the lowlands near Kuching. The specimens are old and faded. They are, clearly, not *media*, but seem nearer to *williamsoni* than to *buxtoni*. Here, for the moment, the matter must rest.

<sup>2</sup> The affinities of this form seem to be with *Zosterops citrinella* (vide Chasen, Bull. Raffles Mus. 8, 1933, p. 84).

- Zosterops atricapilla** Salvad. Black-capped White-eye.  
*Zosterops atricapilla* Salvadori, Ann. Mus. Civ. Gen. xiv, 1879, p. 215: Padang Highlands, West Sumatra.  
*Zosterops clara* Sharpe, Ibis, 1888, p. 479: Mt. Kinabalu, North Borneo.  
*Distr.*—Sumatra.  
 Borneo.
- Zosterops flava** (Horsf.). Yellow White-eye.  
**Zosterops flava flava** (Horsf.).  
*Dicæum flavum* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 170: Java.  
*Zosterops parvule* Hombron and Jacquinot, Voy. Pôle sud. Atlas, 1844, pl. 19: South-east Borneo.  
*Distr.*—Borneo (south).  
 Java (west); North Watcher Islands.
- Zosterops melanura** Hartl. Small Bridled White-eye.  
**\*Zosterops melanura melanura** Hartlaub.  
*Zosterops melanura* Hartlaub, Journ. f. Orn. 1865, p. 15: Pontianak, South-west Borneo.  
*Distr.*—Borneo (south).
- Zosterops melanura gallio** Sharpe.  
*Zosterops gallio* Sharpe, Cat. Bds. Brit. Mus. ix, 1884, p. 185: East Java.  
*Distr.*—Java.
- Zosterops chlorates** Hartl. Greater Zosterops.  
**Zosterops chlorates chlorates** Hartl.<sup>1</sup>  
*Zosterops chlorates* Hartlaub, Journ. f. Orn. 1865, p. 23: Morotai Island, North Moluccas error=Sumatra.  
*Zosterops chlorates korinchi* Kloss, Treubia, xiii, 1931, p. 369: Mt. Korinchi, South-west Sumatra.  
*Distr.*—Sumatra (part).
- \*Zosterops chlorates difficilis**<sup>2</sup> Rob. and Kloss.  
*Zosterops difficilis* Robinson and Kloss, Journ. Fed. Malay States Mus. viii, pt. 2, 1918, p. 250: Mt. Dempo, South Sumatra.  
*Distr.*—Sumatra (part).

<sup>1</sup> Cf. Kloss, Treubia, xiii, 1931, p. 369, where Morotai Island is accepted as the type locality of *Z. chlorates*.

<sup>2</sup> *Zosterops montana* Bp., 1850, may be this bird, but it seems also possible that it is a Sumatran form of *Z. flava*.



**Zosterops chlorates sindorensis** Siebers.

*Zosterops palpebrosa sindorensis* Siebers, Treubia, xi, 1929, p. 151 :  
Mt. Tjerimai, West Java.

*Distr.*—Java (west and central).

**Zosterops chlorates neglecta** Seebohm.

*Zosterops neglecta* Seebohm, Bull. Brit. Orn. Cl. i, 1893, p. 26 :  
East Java.

*Distr.*—Java (east); Bali.

**Zosterops chloris** Bp.

Large Bridled White-eye.

[**Zosterops chloris chloris** Bp.

*Zosterops chloris* Bonaparte, Consp. Gen. Avium, i, 1850, p. 398 :  
Banda Island, Moluccas.

*Distr.*—Extra-limital.]

**Zosterops chloris maxi** Finsch.

*Zosterops Maxi* Finsch, Journ. f. Orn. lv, 1907, p. 302 : Thousand  
Islands, West Java.

*Distr.*—Thousand Islands, Java Sea; Karimon-Java Islands.

**\*Zosterops chloris solombensis** Oberh.

*Zosterops solombensis* Oberholser, Proc. U. S. Nat. Mus. liv, 1917,  
p. 188 : Solombo Besar Island.

*Distr.*—Solombo Besar Island, Java Sea; Billiton.

**\*Zosterops chloris zachlora** Oberh.

*Zosterops solombensis zachlora* Oberholser, Proc. U.S. Nat. Mus.  
liv, 1917, p. 199 : Kalambau Island.

*Distr.*—Kalambau Island, Java Sea.

**Zosterops javanica** (Horsf.).

Javan Zosterops.

**Zosterops javanica javanica** (Horsf.).

*Sylvia javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 156 :  
Java (central).

*Distr.*—Java (central).

**Zosterops javanica frontalis** Reichenb.

*Zosterops frontalis* Reichenbach, Handb., Merop. 1852, p. 94, pl.  
463 : Java (west).

*Zosterops fallax* Sharpe, Cat. Bds. Brit. Mus. ix, 1884, p. 197 : West  
Java.

*Distr.*—Java (west).

**Zosterops javanica elongata** (Stres.).

*Oreosterops javanica elongata* Stresemann, Nov. Zool. xx, 1913, p. 336: Bali.

*Distr.*—Java (east); Bali.

**Zosterops squamifrons** Sharpe.

Pygmy Zosterops.

*Zosterops squamifrons* Sharpe, Ibis, 1892, p. 323: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

Genus **CHLOROCHARIS** Sharpe:

**Chlorocharis emiliæ** Sharpe.

Sharpe's White-eye.

**Chlorocharis emiliæ emiliæ** Sharpe.

*Chlorocharis emiliæ* Sharpe, Ibis, 1888, p. 392: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo (north).

**Chlorocharis emiliæ moultoni** Chas. and Kloss.

*Chlorocharis emiliæ moultoni* Chasen and Kloss, Bull. Brit. Orn. Cl. xlviii, 1927, p. 47: Mt. Poi, South-west Sarawak.

*Distr.*—Borneo (mountains of Sarawak).

Family DICÆIDÆ.

Genus **DICÆUM** Cuvier.

**Dicæum trochileum** (Sparrm.). Scarlet-breasted Flower-pecker.

**Dicæum trochileum trochileum** (Sparrm.).

*Certhia trochilea* Sparrman, Mus. Carls. iv, no. 80, 1789: West Java (*Strese.*, 1923).

*Motacilla flammeum* Sparrm., Mus. Carls. iv, 1789, No. 98: Java.

*Dicæum rubescens* Vieill., Nov. Dict. d' Hist. Nat. ed. 2, ix, 1817, p. 408: Java.

*Nectarinia rubro-cana* Temm., Pl. Col. 108, 1822: Java.

*Dicæum rubrocosum* Cuv., Règne Anim. i, 1829, p. 433: Java.

*Distr.*—Borneo (south).

Java; Bali;<sup>1</sup> Bawean Island; Kangean Islands; Karimon-Java Islands.

**Dicæum cruentatum** (Linn.).

Scarlet-backed Flower-pecker.

[**Dicæum cruentatum cruentatum** (Linn.).

*Certhia cruentata* Linn., Syst. Nat. 10th. ed. 1758, p. 119: Bengal.

*Distr.*—Extra-limital.]

<sup>1</sup> Rensch considers that the Bali bird is *D. t. trochileum* >< *stresemanni* Rensch (Lombok).

**Dicaeum cruentatum siamensis** Kloss.

*Dicaeum cruentatum siamensis* Kloss, Ibis, 1918, p. 216: East Siam.

Distr.—Peninsular Siam (north).

**Dicaeum cruentatum ignitum** (Begb.).<sup>1</sup>

*Nectarinea ignita* Begbie, Malay. Pen. 1834, p. 518: Malacca.

Distr.—Malay Peninsula.

**Dicaeum cruentatum nigrimentum** Salvad.

*Dicaeum nigrimentum* Salvadori, Ann. Mus. Civ. Gen. v, 1874, p. 165: Sarawak.

*Dicaeum pryri* Sharpe, Proc. Zool. Soc. 1881, p. 795: Sandakan, North Borneo.

Distr.—Borneo; North Bornean Islands; Karimata Islands (subsp. incert.).

**Dicaeum cruentatum sumatranum** Cab.

*Dicaeum sumatranum* Cabanis, Journ. f. Orn. 1878, p. 101: Sumatra.

Distr.—Sumatra; Nias Island.

**Dicaeum cruentatum batuense** Richm.

*Dicaeum sumatranum batuense* Richmond, Proc. Biol. Soc. Wash. xxv, 1912, p. 104: Pinie Island, Batu Islands.

Distr.—West Sumatran Islands of Batu group, Sipora and South Pagi.

**Dicaeum sanguinolentum** Temm. Fire-breasted Flower-pecker.

**Dicaeum sanguinolentum sanguinolentum** Temm.<sup>2</sup>

*Dicaeum sanguinolentum* Temminck, Pl. Col. 478, 1829: West Java (restr. Robinson and Kloss, 1923).

Distr.—Java (west).

**Dicaeum sanguinolentum ablutum** Rob. and Kloss.

*Dicaeum sanguinolentum ablutum* Robinson and Kloss, Journ. Fed. Malay States Mus. xi, 1923, p. 57: East Java.

Distr.—Java (east); Bali.

**Dicaeum sanguinolentum beccarii** Rob. and Kloss.

*Dicaeum beccarii* Robinson and Kloss, Journ. Straits Branch, Roy. Asiat. Soc. no. 73, 1916, p. 278: Korinchi, Sumatra.

*Dicaeum vanheysti* Robinson and Kloss, Journ. Fed. Malay States Mus. vii, 1918, p. 239: Brastagi, North Sumatra.

Distr.—Sumatra.

<sup>1</sup> There is a visual record, probably of this subspecies, from the Rhio Archipelago.

<sup>2</sup> Has also been recorded from Sumatra, but confirmation is needed.

**Dicaeum sanguinolentum ignipectus** (Hodgs.).

*Myzanthus ignipectus* Hodgson, Journ. Asiat. Soc. Bengal, xii, 1843, p. 983 : Nepal.

*Distr.*—Malay States.

**Dicaeum sanguinolentum monticolum** Sharpe.

*Dicaeum monticolum* Sharpe, Ibis, 1887, p. 452 : Mt. Kinabalu, N. Borneo.

*Dicaeum sulaense zita* Harr. and Hart., Bull. B. O. Cl. liv, 1934, p. 159 : Mt. Dulit, Sarawak.

*Distr.*—Borneo.

**Dicaeum trigonostigmum** (Scop.).<sup>2</sup> Orange-bellied Flower-pecker.

**Dicaeum trigonostigmum trigonostigmum** (Scop.).

*Certhia trigonostigma* Scopoli, Del. Flor. et Faun. Insubr. ii, 1786, p. 91 : Malacca.

*Certhia cantillans* Lath., Ind. Orn. i, 1790, p. 299 : "China" = Malacca.

*Dicaeum croceiventre* Vigors, Mem. Raffles, 1830, p. 673 : Sumatra.

*Dicaeum trigonostigma hypochlous* Oberh., Bull. U.S. Nat. Mus. 98, 1917, p. 67 : Siantan Island, Anamba Islands.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio and Lingga Archipelagos; Billiton; Banka. Karimata Islands.

**Dicaeum trigonostigmum rubropygium** Baker.

*Dicaeum trigonostigma rubropygium* Stuart Baker, Bull. Brit. Orn. Cl. xli, 1921, p. 108 : Mergui.

*Distr.*—Peninsular Siam.

**Dicaeum trigonostigmum dayakanum** Chas. and Kloss.

*Dicaeum trigonostigma dayakana* Chasen and Kloss, Journ. f. Ornith. 1929, Bd. 2, p. 121 : near Sandakan, North Borneo.

*Distr.*—Borneo; North Bornean Islands.

**Dicaeum trigonostigmum megastomum** Hartert.

*Dicaeum trigonostigma megastoma* Hartert, Bull. Brit. Orn. Cl. xxxviii, 1918, p. 74 : Great Natuna Island.

*Distr.*—North Natuna Islands.

**Dicaeum trigonostigmum flaviclune** Hartert.

*Dicaeum trigonostigma flaviclunis* Hartert, Bull. Brit. Orn. Cl. xxxviii, 1918, p. 75 : Karangholong, Java.

*Distr.*—Java; Bali.

<sup>1</sup> After an examination of the material on which "*zita*" is based I believe that the differences noted between birds from Mt. Kinabalu and Mt. Dulit are due to individual variation, and the unequal condition of the skins from the two localities.

<sup>2</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 119.

**\*Dicæum trigonostigma antioproctum** Oberh.

*Dicaeum trigonostigma antioproctum* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 21 : Simalur Island.

*Dicaeum trigonostigma melanthe* Oberholser, Smiths. Misc. Coll. lx, No. 7, 1912, p. 21 : Lasia Island, West Sumatra.

*Distr.*—West Sumatran Islands of Simalur and Lasia.

**\*Dicæum trigonostigma lyprum** Oberh.

*Dicaeum trigonostigma lyprum* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 21 : Nias Island.

*Distr.*—Nias and Batu islands, West Sumatra.

**Dicæum trigonostigma pagense** Oberh.

*Dicaeum trigonostigma pagense* Oberholser, Journ. Wash. Acad. Sci, xvi, 1926, p. 520 : South Pagi Island.

*Distr.*—Mentawi Islands.

**Dicæum chrysorrheum** Temm.

Yellow-vented Flower-pecker.

**Dicæum chrysorrheum chrysorrheum** Temm.

*Dicaeum chrysorrheum* Temminck, Pl. Col. 478, 1829 : Java.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java (west).

**Dicæum concolor** Jerd.

Plain-coloured Flower-pecker.

**[Dicæum concolor concolor** Jerd.

*Dicaeum concolor* Jerdon, Madr. Journ. Lit. Sci. xi, 1840, p. 227 : Malabar Coast.

*Distr.*—Extra-limital.]

**Dicæum concolor borneanum** Lönn.

*Dicaeum minullum borneanum* Lönnberg, Sarawak Mus. Journ. iii, 1925, p. 1 : Mt. Murud, N. Sarawak.

*Distr.*—Malay States.

Sumatra.

Borneo; North Natuna Islands.\*

**Dicæum concolor sollicitans** Hart.

*Dicaeum sollicitans* Hartert, Nov. Zool. viii, 1901, p. 52 : Mt. Gede, West Java.

*Distr.*—Java; Bali.

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\* A specimen from Bunguran Island, collected by Everett has been examined.

Genus **ANAIMOS** Reichenbach.<sup>1</sup>

**Anaimos percussus** (Temm.). Crimson-breasted Flower-pecker.

**Anaimos percussus percussus** (Temm.).

*Pardalotus percussus* Temminck, Pl. Col. 394, 1826: Java.

Distr.—Java.

**Anaimos percussus ignicapillus** (Eyton).

*Dicæum ignicapilla* Eyton, Proc. Zool. Soc. 1839, p. 105: Malacca.

Distr.—Malay Peninsula.

Sumatra; Rhio Archipelago; Billiton; Banka.

Borneo; North Natuna Islands.

**Anaimos xanthopygius** (Salvad.). Yellow-rumped Flower-pecker.

**Anaimos xanthopygius xanthopygius** (Salvad.).

*Prionochilus xanthopygius* Salvadori, Att. R. Accad. Sci. Torino, iii, 1868, p. 416: Sarawak.

Distr.—Borneo; North Natuna Islands.

**Anaimos thoracicus** (Temm.). Scarlet-breasted Flower-pecker.

*Pardalotus thoracicus* Temminck, Pl. Col. 600, 1836: Borneo.

Distr.—Malay States.

Billiton Island.

Borneo.

**Anaimos maculatus** (Temm.). Yellow-throated Flower-pecker.

**Anaimos maculatus maculatus** (Temm.).

*Pardalotus maculatus* Temminck, Pl. Col. 600, 1836: Borneo.

Distr.—Malay Peninsula.

Sumatra; Billiton.

Borneo.

**Anaimos maculatus septentrionalis** (Rob. and Kloss).

*Prionochilus maculatus septentrionalis* Robinson and Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 206: Chumporn, Peninsular Siam.

Distr.—Peninsular Siam.

**Anaimos maculatus natunensis** (Chas.).

*Charitociris maculata natunensis* Chasen, Bull. Raffles Mus., 9, 1935, p. 95: Bunguran Island, North Natuna Islands.

Distr.—North Natuna Islands.

<sup>1</sup> Cf. Oberh., Ohio Journ. Sci. xxiii, 1923, p. 287.

\**Anaimos maculatus opistatus* (Oberh.).

*Anaimos maculatus opistatus* Oberholser, Smiths. Misc. Coll. 1x,  
no. 7, 1912, p. 22 : Nias Island.

*Distr.*—Nias Island, West Sumatra.

Genus **PIPRISOMA** Blyth.

**Piprisoma modestum** (Hume).<sup>1</sup> Hume's Flower-pecker.

**Piprisoma modestum modestum** (Hume).

*Prionochilus modestus* Hume, Stray Feathers, iii, 1875, p. 298 :  
South Tenasserim.

*Distr.*—Peninsular Siam.

**Piprisoma modestum finschii** (Bartels).

*Dicaeum Finschii* Bartels, Orn. Monatsbr. xxii, 1914, p. 125 :  
Wynkoops Bay, West Java.

*Piprisoma modestum remotum* Robinson and Kloss, Journ. Fed. Malay  
States Mus. vi, 1915, p. 29 : Negri Sembilan.

*Distr.*—Malay States.  
Java (west).

**Piprisoma agile** (Tick.). Thick-billed Flower-pecker.

[**Piprisoma agile agile** (Tick.).

*Fringilla Agilis* Tickell, Journ. Asiat. Soc. Bengal, ii, 1833, p. 578 :  
Borabhum.

*Distr.*—Extra-limital.]

**Piprisoma agile sordidum** Rob. and Kloss.

*Piprisoma sordidum* Robinson and Kloss, Journ. Fed. Malay States  
Mus. vii, 1918, p. 239 : Selangor, Malay States.

*Distr.*—Malay States.  
Rhio Archipelago.

**Piprisoma agile everetti** (Sharpe).

*Prionochilus everetti* Sharpe, Ibis, 1877, p. 16 : Labuan Island.  
*Distr.*—Borneo.

**Piprisoma agile bungurensae** Chas.

*Piprisoma agile bungurensae* Chasen, Bull. Raffles Mus. 9, 1934,  
p. 96 : Bunguran Island, North Natuna Island.

*Distr.*—North Natuna Islands.

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<sup>1</sup> This species is confused with *P. agile* in Faun. Brit. Ind., Bds. (2nd ed.), vii, 1930, p. 294.

Family NECTARINIIDÆ.

Genus **CHALCOSTETHA** Cabanis.

**Chalcostetha calcostetha** (Jard.). Macklot's Sunbird.

**Chalcostetha calcostetha calcostetha** (Jard.).

*Nectarinia calcostetha* Jardine, Nat. Libr. Ornith. xiii, 1843, p. 263 : Java (tom. cit. p. 274).

*Nectarinia pectoralis* (not Horsf. 1821) Temm., Pl. Col. 138, 1822 : Java. *Nectarinia insignis* Jard., Nat. Libr. Orn. xiii, 1843, p. 274 : (new name for *pectoralis* Temm.).

*Cinnyris macklotii* Bp., Consp. Gen. Av. i, 1850, p. 408 : (new name for *pectoralis* Temm.).

*Distr.*—Malay Peninsula.

Sumatra; Rhio and Lingga Archipelagos; Billiton.

Borneo; Karimata Islands.

Java; Karimon-Java Islands.

**Chalcostetha calcostetha proxima** Riley.

*Chalcostetha calcostetha proxima* Riley, Proc. Biol. Soc. Wash. xl, 1927, p. 141 : Derawan Island, North-east Borneo.

*Chalcostetha calcostetha halitupa* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 110 : Brian Island, South Natuna Islands.

*Distr.*—Maratua Islands, East Borneo; Natuna Islands.

**Chalcostetha calcostetha pagicola** Oberh.

*Chalcostetha calcostetha pagicola* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 17 : North Pagi Island.

*Chalcostetha calcostetha sibiru* Chasen and Kloss, Ibis, 1926, p. 297 : Siberut Island, West Sumatra.

*Distr.*—West Sumatran islands of Nias, Batu group, and Mentawi group.

\***Chalcostetha calcostetha heliomarpta** Oberh.

*Chalcostetha calcostetha heliomarpta* Oberholser, Journ. Wash. Acad. Sci. xiii, 1923, p. 229 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

Genus **AETHOPYGA** Cabanis.

**Aethopyga saturata** (Hodgs.). Black-breasted Sunbird.

[**Aethopyga saturata saturata** (Hodgs.).

*Cinnyris saturata* Hodgson, Ind. Rev. ii, 1837, p. 273 : Nepal.

*Distr.*—Extra-limital.]



**Aethopyga saturata anomala** Richm.

*Aethopyga anomala* Richmond, Proc. U.S. Nat. Mus. xxii, 1900,  
p. 319: Trang, Peninsular Siam.

*Distr.*—Peninsular Siam.

**Aethopyga saturata wrayi** Sharpe.

*Aethopyga wrayi* Sharpe, Proc. Zool. Soc. 1887, p. 440, pl. 38, fig.  
2: Perak, Malay States.

*Distr.*—Malay States.

**Aethopyga mystacalis** (Temm.).<sup>1</sup>

Scarlet Sunbird.

**Aethopyga mystacalis mystacalis** (Temm.).

*Nectarinia mystacalis* Temminck, Pl. Col. 126, 1822: Java.

*Aethopyga lodoisia* Salvad., Ibis, 1865, p. 548: Java.

*Distr.*—Java.

**Aethopyga mystacalis temmincki** (S. Müll.).

*Nectarinia temmincki* Sal. Müller, Verh. Nat. Gesch. Land-  
Volk. 1843, p. 173, note = Sumatra.

*Aethopyga mystacalis perrettii* Harrisson and Hartley, Bull. B. O. Cl.  
liv, 1934, p. 158: Mt. Dulit, Sarawak.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Aethopyga eximia** (Horsf.).<sup>2</sup>

Kuhl's Sunbird.

*Nectarinia eximia* Horsfield, Trans. Linn. Soc. Lond. xiii, 1821,  
p. 168: Java.

*Nectarinia kuhlii* Temm., Pl. Col. 376, 1825: Java.

*Distr.*—Java.

<sup>1</sup> In the present state of our knowledge these scarlet sunbirds are difficult to arrange in species. In some respects *mystacalis* and *siparaja* seem closer than do *mystacalis* and *temmincki*, but *mystacalis* and *siparaja* occur together in West Java.

<sup>2</sup> Good series of this bird are available for comparison, from Sumatra, Borneo (including topotypes of "*perrettii*") and the Malay Peninsula and I cannot make any separation, in either sex, on colour, or size. In old skins the red parts of the plumage are usually paler than in recently collected specimens. In the British Museum, old skins from Mt. Dulit are paler than the newer material collected by Messrs. Harrisson and Hartley.

<sup>3</sup> This is a very distinct species. Its nearest relative is, perhaps, *A. nipalensis*.

**Aethopyga siparaja** (Raffles).

Raffles' Sunbird.

**Aethopyga siparaja siparaja** (Raffles).

*Certhia siparaja* Raffles, Trans. Linn. Soc. xiii, 1821, p. 299 : Sumatra.

*Aethopyga eupogon* Cab., Mus. Hein. i, 1850, p. 103 : Borneo.

*Aithopyga chalcopogon* Reichenb., Handb. Scans. 1854, p. 303, pl. 586 : Borneo.

*Aethopyga siparaja tinoptila* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 18 : Siumut Island, West Sumatra.

*Aethopyga siparaja melanetra* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 18 : Lasia Island, West Sumatra.

*Aethopyga siparaja ochropyrrha* Oberh., Bull. U.S. Nat. Mus. 98, 1917, p. 65 : Rittan Island, Anamba Islands.

*Aethopyga siparaja heliophiletica* Oberh., Journ. Wash. Ac. Sci. xiii, 1923, p. 231 : Bangkaru Island, Banjak Islands, West Sumatra.

*Distr.*—Malay Peninsula; Anamba Islands.

Sumatra; Rhio Archipelago; Billiton; West Sumatran islands of Simalur, Babi, Lasia, and Banjak group.

Borneo; Banguay Island; Maratua Islands; Karimata Islands.

**Aethopyga siparaja cara** Hume.

*Aethopyga cara* Hume, Stray Feathers, ii, 1875, p. 473 : South of Moulmein, Tenasserim.

*Distr.*—Peninsular Siam.

**Aethopyga siparaja niasensis** Hart.

*Aethopyga siparaja niasensis* Hartert, Orn. Monatsbr. vi, 1898, p. 92 : Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Aethopyga siparaja photina** Oberh.

*Aethopyga siparaja photina* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 18 : North Pagi Island.

*Aethopyga siparaja siberu* Chasen and Kloss, Ibis, 1926, p. 298 : Siberut Island, West Sumatra.

*Distr.*—West Sumatra islands of Siberut, Sipora, North and South Pagi.

**\*Aethopyga siparaja heliogona** Oberh.

*Aethopyga siparaja heliogona* Oberholser, Journ. Wash. Acad. Sci. xiii, 1923, p. 232 : Java.

*Distr.*—Java (west).

**Aethopyga siparaja natunæ** Chas.

*Aethopyga siparaja natunæ* Chasen, Bull. Raffles Mus. 9, 1934, p. 97 : Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**Aethopyga nipalensis** (Hodgs.). Yellow-backed Sunbird.

[**Aethopyga nipalensis nipalensis** (Hodgs.).

*Cinnyris nipalensis* Hodgson, Ind. Rev. ii, 1837, p. 273: Nepal.

Distr.—Extra-limital.]

**Aethopyga nipalensis australis** Rob. and Kloss.

*Aethopyga nipalensis australis* Robinson and Kloss, Bull. Brit. Orn.

Cl. xlv, 1923, p. 14: Nakon Sritamarat, Peninsular Siam.

Distr.—Peninsular Siam.

Genus **LEPTOCOMA** Cabanis.

**Leptocoma brasiliana** (Gmel.).<sup>1</sup> Van Hasselt's Sunbird.

**Leptocoma brasiliana brasiliana** (Gmel.).

*Certhia brasiliana* Gmelin, Syst. Nat. i, pt. 1, 1788, p. 474: Brasil  
error=Java (Oberh., 1912).

*Nectarinia hasseltii* Temm., Pl. Col. 376, 1825: Java.

*Cinnyris ruber* Less., Traité d'Orn. 1830, p. 296: Java.

*Cinnyris brasiliana hypoleucis* Oberh., Smiths. Misc. Coll. lx, No. 7,  
1912, p. 19: South Pagi Island, West Sumatra.

Distr.—Malay Peninsula; Tioman Island:

Sumatra; Billiton; Banka; Rhio and Lingga Archipelagos;  
West Sumatran islands of Siberut, Sipora and North and  
South Pagi.

Borneo.

Java.

**Leptocoma brasiliana axantha** (Oberh.).

*Cinnyris brasiliana axantha* Oberholser, Bull. U.S. Nat. Mus. 159,  
1932, p. 114: Natuna Islands.

Distr.—Natuna Islands.

\***Leptocoma brasiliana eumecis** (Oberh.).

*Cinnyris brasiliana eumecis* Oberholser, Bull. U.S. Nat. Mus. 98,  
1917, p. 63: Siantan Island, Anamba Islands.

Distr.—Anamba Islands.

\***Leptocoma brasiliana mecynorhyncha** (Oberh.).

*Cinnyris brasiliana mecynorhyncha* Oberholser, Smiths. Misc. Coll.  
lx, no. 7, 1912, p. 19: Simalur Island.

Distr.—Simalur Island, West Sumatra.

\***Leptocoma brasiliana oenopa** (Oberh.).

*Cinnyris brasiliana oenopa* Oberholser, Smiths. Misc. Coll. lx, no.  
7, 1912, p. 18: Nias Island.

Distr.—Nias Island, West Sumatra.

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<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 116.

**Leptocoma brasiliiana sperata** (Linn.). Philippine Sunbird.

*Certhia sperata* Linn., Syst. Nat. 12th. ed. 1766, p. 186: Philippine Islands.

*Distr.*—Maratua Island, East Borneo.

**Leptocoma jugularis** (Linn.).<sup>1</sup> Yellow-breasted Sunbird.

[**Leptocoma jugularis jugularis** (Linn.).

*Certhia jugularis* Linn., Syst. Nat. 12th. ed. 1766, p. 185: Philippine Islands.

*Distr.*—Extra-limital.]

**Leptocoma jugularis pectoralis** (Horsf.).

*Nectarinia pectoralis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 167: Java.

*Cinnyris ornatus* Less., Dict. Sci. Nat. i, 1827, p. 15: Java.

*Nectarinia eximia* (not Horsf. 1821) Temm., Pl. Col. 138, 1822: Java.

*Cinnyris luteoventer* Less., Traité d'Orn. 1830, p. 298: Sunda Islands=Java.

*Distr.*—Java; Bali; Kangean Islands; Bawean Island.

**Leptocoma jugularis flammixillaris** (Blyth).

*Nectarinia flammixillaris* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 557 (nom. for descrip. tom. cit. p. 979): Tenasserim.

*Distr.*—Malay Peninsula (south to Penang).<sup>2</sup>

**Leptocoma jugularis microleuca** (Oberh.).

*Cinnyris ornata microleuca* Oberholser, Proc. U.S. Nat. Mus. lv, 1919, p. 273: Taya Island, South-east Sumatra.

*Cinnyris ornata heliobleta* Oberh., Journ. Wash. Acad. Sci. xiii, 1923, p. 230: Trengganu, Malay Peninsula.

*Cinnyris ornata heliomanis* Oberh., Journ. Wash. Acad. Sci. xiii, 1923, p. 231: East Borneo.

*Cinnyris ornata sapega* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 112: Subi Island, South Natuna Islands.

*Distr.*—Malay States; Tioman Island.

Sumatra; Taya Island, S.E. Sumatra; Rhio and Lingga Archipelagos.

Borneo; North Bornean Islands; Natuna Islands; Mangalum Island; Karimata Islands.

\***Leptocoma jugularis heliozeteta** (Oberh.).

*Cinnyris ornata heliozeteta* Oberholser, Journ. Wash. Acad. Sci. xiii, 1923, p. 231: Banka Island.

*Distr.*—Banka Island.

<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 113.

<sup>2</sup> The division between *flammixillaris* and *microleuca* in the north of the Malay Peninsula is rather vague.

**\*Leptocoma jugularis polyclysta** (Oberh.).

*Cinnyris ornata polyclysta* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 18: Engano Island.

*Distr.*—Engano Island, West Sumatra.

Genus **ANTHREPTES** Swainson.

**Anthreptes macularia** Blyth.

Purple-naped Sunbird.

**Anthreptes macularia macularia** Blyth.

*Anthreptes macularia* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 106: Malacca.

*Anthreptes nuchalis* Blyth, Journ. Asiat. Soc. Bengal, xii, 1843, p. 980: Singapore.

*Distr.*—Malay Peninsula.

**Anthreptes macularia hypogrammica** (S. Müll.).

*Nectarinia hypogrammica* S. Müller, Verh. Nat. Gesch. Land en Volk. 1843, p. 173: Sumatra.

*Anthreptes hypogrammica intensior* Hart., Bull. B. O. Cl. xxxviii, 1917, p. 27: Sarawak.

*Distr.*—Sumatra.

Borneo.

**Anthreptes macularia natunensis** Chas.

*Anthreptes macularia natunensis* Chasen, Bull. Raffles Mus. x, 1935, p. 43: Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**Anthreptes simplex** (S. Müll.).<sup>1</sup>

Plain-coloured Sunbird.

**Anthreptes simplex simplex** (S. Müll.).

*Nectarinia simplex* S. Müller, Verh. Nat. Gesch. Land en Volk. 1843, p. 173: Sumatra.

*Nectarinia frontalis* Blyth, Journ. Asiat. Soc. Bengal, xiv, 1845, p. 558: Singapore.

*Anthreptes simplex simplicior* Oberh., Journ. Wash. Acad. Sci. xiii, 1923, p. 229: Central Borneo.

*Anthreptes simplex euthapsinus* Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 107: Bunguran Islands, Natuna Islands.

*Distr.*—Malay Peninsula.

Sumatra; Nias.

Borneo; North Natuna Islands.

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<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 108.

***Anthreptes malacensis*** (Scop.). Brown-throated Sunbird.

***Anthreptes malacensis malacensis*** (Scop.).<sup>1</sup>

*Certhia malacensis* Scopoli, Del. Flor. et Faun. Insulbr. ii, 1786, p. 91: Malacca.

*Nectarinia javanica* Horsf., Trans. Linn. Soc. xiii, 1821, p. 167: Java.

*Anthreptes malacensis anambae* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 61: Mobur Island, Anamba Islands.

*Anthreptes malacensis nesaensis* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 20: Pagi Islands, West Sumatra.

*Distr.*—Malay Peninsula; Tioman Island; Anamba Islands.

Sumatra; Rhio and Lingga Archipelagos; Billiton; Banka; Mentawi Islands, West Sumatra.

Borneo (not north); Karimata Islands.

Java; Bali; Kangean Islands.

***Anthreptes malacensis bornensis*** Riley.

*Anthreptes malacensis bornensis* Riley, Proc. Biol. Soc. Wash. xxxiii, 1920, p. 55: Sandakan, North Borneo.

*Distr.*—Borneo (north); North Bornean Islands; Mangalum Island.

***Anthreptes malacensis erixanthus*** Oberh.

*Anthreptes malacensis erixanthus* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 109: Bunguran Island, Natuna Islands.

*Distr.*—Natuna Islands.

***Anthreptes malacensis mjobergi*** Bangs and Petrs.

*Anthreptes malacensis mjobergi* Bangs and Peters, Occ. Pap. Boston Soc. Nat. Hist. v, 1927, p. 240: Maratua Island, East Borneo.

*Distr.*—Maratua Islands, East Borneo.

***Anthreptes malacensis baweanus*** Oberh.

*Anthreptes malacensis baweanus* Oberholser, Proc. U.S. Nat. Mus. lii, 1917, p. 196: Bawean Island.

*Distr.*—Bawean Island; Karimon-Java Islands.

**\**Anthreptes malacensis pelloptilus*** Oberh.

*Anthreptes malacensis pelloptilus* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 20: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**\**Anthreptes malacensis pollostus*** Oberh.

*Anthreptes malacensis pollostus* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 21: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Anthreptes rhodolæma** Shelley.

Shelley's Sunbird.

**Anthreptes rhodolæma rhodolæma** Shelley.

*Anthreptes rhodolæma* Shelley, Monogr. Nectariniidae, 1878, p. 313, pl. 101: Malacca.

*Anthreptes rhodolæma aenea* Riley, Proc. Biol. Soc. Wash. xlvii, 1934, p. 116: Labuan Klambu, Dutch East Borneo.<sup>1</sup>

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.

Genus **CHALCOPARIA** Cabanis.

**Chalcoparia singalensis** (Gmel.).<sup>2</sup>

Ruby-cheek.

**Chalcoparia singalensis singalensis** (Gmel.).

*Motacilla singalensis* Gmelin, Syst. Nat. i, 1788, p. 964: Ceylon, error=Malacca (*Oberholser*, 1912).

*Distr.*—Malay Peninsula.

**Chalcoparia singalensis interposita** Rob. and Kloss.

*Chalcoparia singalensis interposita* Robinson and Kloss, Journ. Fed. Malay States Mus., x, 1921, p. 209: Takuapa, west coast of Peninsular Siam.

*Distr.*—Peninsular Siam.

**Chalcoparia singalensis sumatrana** Kloss.

*Chalcoparia singalensis sumatrana* Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 209: Ophir district, Central Sumatra.

*Distr.*—Sumatra; Billiton; Nias (? subsp.), West Sumatra.

**Chalcoparia singalensis borneana** Kloss.

*Chalcoparia singalensis borneana* Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 209: Samarahan, Sarawak.

*Distr.*—Borneo (perhaps not the west); Banguay Island.

**Chalcoparia singalensis pallida** Chas.

*Chalcoparia singalensis pallida* Chasen, Bull. Raffles Mus. 9, 1934, p. 95: Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

**Chalcoparia singalensis phœnicotis** (Temminck).

*Nectarinia phœnicotis* Temminck, Pl. Col. 108, 1822: Java.

*Distr.*—Java.

<sup>1</sup> I cannot separate birds from the Malay Peninsula, Sumatra, Sarawak and British North Borneo.

<sup>2</sup> Cf. Kloss, Journ. F.M.S. Mus. x, 1921, p. 209 and Bull. B. O. C. 1, 1930, p. 69.

\**Chalcoparia singalensis panopsia* Oberh.

*Chalcoparia singalensis panopsia* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 21: Tuanku Island; Banjak Islands, West Sumatra.

*Distr.*—Banjak Islands, West Sumatra.

Genus **ARACHNOTHERA** Temminck.

**Arachnothera longirostra** (Lath.).<sup>1</sup> Little Spider-hunter.

**Arachnothera longirostra longirostra** (Lath.).

*Certhia longirostra* Latham, Ind. Orn. i, 1790, p. 299: Bengal.

*Cinnyris cinereicollis* Vieill., Nov. Dist. Hist. Nat. xxxi, 1819, p. 502: Malacca.

*Arachnothera longirostris melanchima* Oberh., Smith. Misc. Coll. lx, No. 7, 1912, p. 19: East Sumatra.

*Arachnothera longirostra exochra* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 19: South Pagi Island.

*Arachnothera longirostra hypochra* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 19: North Pagi Island.

*Arachnothera longirostris antelia* Oberh., Journ. Wash. Acad. Sci. xiii, 1923, p. 227: Trang, Peninsular Siam.

*Arachnothera longirostris heliocrita* Oberh., Journ. Wash. Acad. Sci. xiii, 1923, p. 228: Singapore Island.

*Distr.*—Malay Peninsula.

Sumatra; Lingga; Banka; Billiton; Mentawi Islands.

**Arachnothera longirostra büttikoferi** van Oort.

*Arachnothera longirostra büttikoferi* van Oort, Notes Leyden Mus. xxxii, 1910, p. 195: Borneo.

*Distr.*—Borneo.

**Arachnothera longirostra prillwitzii** Hart.

*Arachnothera longirostra prillwitzii* Hartert, Nov. Zool. viii, 1901, p. 51: Java.

*Distr.*—Java.

**Arachnothera longirostra rothschildi** van Oort.

*Arachnothera longirostra rothschildi* van Oort, Notes Leyden Mus. xxxii, 1910, p. 195: Bunguran Island, North Natuna Islands.

*Distr.*—North Natuna Islands.

\***Arachnothera longirostra atita** Oberh.

*Arachnothera longirostra atita* Oberholser, Bull. U.S. Nat. Mus. 159, 1932, p. 104: Sirhassen Island, South Natuna Islands.

*Distr.*—South Natuna Islands.

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<sup>1</sup> Cf. Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 106.



**\*Arachnothera longirostra zarhina** Oberh.

*Arachnothera longirostra zarhina* Oberholser, Smiths. Misc. Coll.  
lx, no. 7, 1912, p. 19: Bangkaru Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**Arachnothera longirostra niasensis** van Oort.

*Arachnothera longirostra niasensis* van Oort, Notes Leyden Mus.  
xxxii, 1910, p. 195: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Arachnothera magna** (Hodgs.). Large Streaked Spider-hunter.**Arachnothera magna magna** (Hodgs.).<sup>1</sup>

*Cinnyris magna* Hodgson, Ind. Rev. ii, 1837, p. 272: Nepal.

*Distr.*—Malay States.

**Arachnothera affinis** (Horsf.). Grey-breasted Spider-hunter.**Arachnothera affinis affinis** (Horsf.).

*Cinnyris affinis* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 166:  
Java.

*Nectarinia inernata* (sic) Temm., Pl. Col. 84, fig. 2, 1821: Java.

*Distr.*—Java; Bali.

**Arachnothera affinis modesta** (Eyton).

*Anthreptes modesta* Eyton, Proc. Zool. Soc. 1839, p. 105: Malacca.

*Arachnothera latirostris* Blyth, Journ. Asiat. Soc. Beng. xii, 1843, p. 982:  
Singapore.

*Arachnothera concolor* Schleg., Veth's Midden-Sumatra, Aves, Pl. 1:  
Sumatra.

*Arachnothera affinis heliophilus* Oberh., Journ. Wash. Acad. Sci. xiii,  
1923, p. 226: North-west Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo (part).

**Arachnothera affinis everetti** (Sharpe).<sup>2</sup>

*Arachnoraphis everetti* Sharpe, Ibis, 1893, p. 561: Mt. Kinabalu,  
North Borneo.

*Distr.*—Borneo (part).

<sup>1</sup> It is noteworthy that the Malayan form seems not to be *A. m. aurata* Blyth, Journ. Asiat. Soc. Bengal, xxiv, 1855, p. 478 (Pegu).

<sup>2</sup> While I think that *everetti* is only a subspecies of *A. affinis* the ranges of *A. a. modesta* and *A. a. everetti* seem curiously complicated in Borneo: the latter seems to be a mountain form descending into the lowlands in the northern part of the island.

**Arachnothera chrysogenys** (Temm.). Yellow-eared Spider-hunter.

**Arachnothera chrysogenys chrysogenys** (Temm.).

*Nectarinia chrysogenys* Temminck, Pl. Col. 388, 1826: Java.

*Cinnyris longirostra* Horsf., Trans. Linn. Soc. xiii, 1821, p. 167: Java.

*Arachnothera flavigenis* Swains., Ann. Birds, ii, 1837, p. 329: nom. nov.

*Arachnothera chrysogenys copha* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 20: North-west Sumatra.

*Arachnothera chrysogenys isopega* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 20: Pagi Islands, West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra; Rhio Archipelago; Mentawi Islands, West Sumatra.  
Borneo.

Java.

\***Arachnothera chrysogenys pleoxantha** Oberh.

*Arachnothera chrysogenys pleoxantha* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 20: Nias Island.

*Distr.*—Nias Island, West Sumatra.

**Arachnothera juliae** Sharpe.

Whitehead's Spider-hunter.

*Arachnothera juliae* Sharpe, Ibis, 1887, p. 451, pl. 14: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

**Arachnothera robusta** Müll. and Schleg. Long-billed Spider-hunter.

**Arachnothera robusta robusta** (Müll. and Schleg.).

*Arachnothera robusta* Müller and Schlegel, Verh. Nat. Gesch. Zool. (Aves), 1845, p. 68, pl. xi, fig. i: West Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Arachnothera robusta armata** Müll. and Schleg.

*Arachnothera armata* Müller and Schlegel, Verh. Nat. Gesch. Zool. (Aves), 1845, p. 68, pl. xi, fig. 2: Pangerango, West Java.

*Arachnothera uropygialis* Gray, Gen. Birds, i, 1847, pl. 33: Java.

*Distr.*—Java.

**Arachnothera crassirostris** (Reichenb.). Thick-billed Spider-hunter.

*Arachnocestra crassirostris* Reichenbach, Handb. Scans. 1854, p. 314, no. 747, pl. 592, fig. 4016: India, error=Sumatra (*Rob. and Kloss*, 1924).

*Arachnothera temmincki* Horsf. and Moore, Cat. Bds. Mus. East Ind. Coy., ii, 1856, p. 728: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

**Arachnothera flavigaster** (Eyton). Greater Yellow-eared Spider-hunter.

*Anthreptes flavigaster* Eyton, Proc. Zool. Soc. 1839, p. 105 : Malacca.

*Arachnothera latirostris* Reichb., Handb. Scans. 1854, p. 316, No. 747, pl. 593, figs. 4024—25 : Malacca.

*Arachnothera eytonii* Salvad., Ann. Mus. Civ. Gen. v, 1874, p. 182 (nom. nov.).

*Arachnothera simillima* Hume, Str. Feaths. v, 1877, p. 487 : Malacca.

*Arachnothera flaviventris* Gadow, Cat. Bds. Brit. Mus. ix, 1884, p. 109 (nom. nov.).

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

## Family MELIPHAGIDÆ.

Genus **LICHMERA** Cabanis.

**Lichmera indistincta** (Vig. and Horsf.).<sup>1</sup> Brown Honey-eater.

[**Lichmera indistincta indistincta** (Vig. and Horsf.).

*Meliphaga indistincta* Vigors and Horsfield, Trans. Linn. Soc. xv, p. 315, 1827 : South-west Australia.

*Distr.*—Extra-limital.]

\***Lichmera indistincta limbata** S. Müll.

*Meliphaga limbata* S. Müller, Verh. Nat. Gesch. Land en Volk., 1843, p. 162 : Timor.

*Distr.*—Bali.

## Family MOTACILLIDÆ.

Genus **MOTACILLA** Linn.

**Motacilla alba** Linn.

White Wagtail.

[**Motacilla alba alba** Linn.

*Motacilla alba* Linn., Syst. Nat. 10th. ed. 1758, p. 184 : Sweden.

*Distr.*—Extra-limital.]

**Motacilla alba ocularis** Swinh.

*Motacilla ocularis* Swinhoe, Ibis, 1860, p. 55 : Amoy.

*Distr.*—Borneo; Banguay Island, North Borneo.

**Motacilla cinerea** Tunst.

Grey Wagtail.

[**Motacilla cinerea cinerea** Tunst.

*Motacilla cinerea* Tunstall, Orn. Brit. 1771, p. 2 : Great Britain.

*Distr.*—Extra-limital.]

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<sup>1</sup> Cf. Stres., Nov. Zool. xix, 1912, p. 342.

**Motacilla cinerea melanope** Pall.<sup>1</sup>

*Motacilla Melanope* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 696 : Siberia.

*Motacilla bistrigata* Raffles, Trans. Linn. Soc. xiii, 1822, p. 312 : Sumatra.  
*Pallemura javensis* Bp., Consp. Av. i, 1850, p. 250 : Java (nom nud.).

*Distr.*—Malay Peninsula; Anamba Islands; Tambelan Islands.  
 Sumatra; Simalur, Sipora, and Nias Islands, West Sumatra.  
 Borneo.  
 Java; Bali; Christmas Island.

**Motacilla flava** Linn.

[*Motacilla flava flava* Linn.]

*Motacilla flava* Linn., Syst. Nat. 10th. ed. 1758, p. 185 : Sweden.

*Distr.*—Extra-limital.]

**Motacilla flava taivana** (Swinh.).<sup>2</sup>

Green-headed Wagtail.

*Budytes taiwanus* Swinhoe, Proc. Zool. Soc. 1863, pp. 274 and 334 : Formosa.

*Budytes melanotis* Swinhoe, Ibis, 1864, p. 422 : Singapore.

*Distr.*—Malay Peninsula.  
 Sumatra.

**Motacilla flava simillima** Hart.<sup>3</sup>

Blue-headed Wagtail.

*Motacilla flava simillima* Hartert, Vög. pal. Fauna, i, 1905, p. 289 : Sulu Islands.

*Distr.*—Malay Peninsula; Anamba Islands.  
 Sumatra; Simalur and Mentawi Islands, West Sumatra;  
 Billiton.  
 Borneo; Natuna Islands.  
 Java; ? Bali; Karimon-Java Islands; Christmas Island.

**Motacilla flava macronyx** (Stres.).<sup>4</sup>

Grey-headed Wagtail.

*Budytes flavus macronyx* Stresemann, Avif. Macedon., 1920, p. 76 : Vladivostock.

*Distr.*—Malay Peninsula.  
 Java.

<sup>1</sup> See G. L. Bates, Bull. B. O. Cl. lv, 1934, p. 46 wherein a fine point of systematics is raised. We have adopted the name geographically most appropriate.

<sup>2</sup> We have not seen this form from Borneo or Java and can trace no reliable records.

<sup>3</sup> This seems to be the common form of *M. flava* in Malaysia, but we have seen few adults: these, however, are apparently *simillima* and not *plexa* Thayer and Bangs. *M. f. macronyx* and *taivana* are rarer (in the Malay Peninsula at least) but the former seems to be more numerous in the north than in the south. We have seen a good series of it from Bangkok, Siam.

<sup>4</sup> Only one or two adults are known from the Malay States. Series from Siam seem to be *macronyx* rather than *thunbergi* (*borealis* olim).

Genus **DENDRONANTHUS** Blyth.

**Dendronanthus indicus** (Gmel.). Forest Wagtail.

*Motacilla indica* Gmelin, Syst. Nat. i, pt. 2, 1789, p. 962: India.

Distr.—Malay Peninsula.

Sumatra; Simalur, Banjak Islands, Nias, and Mentawi Islands, West Sumatra.

Borneo.

Java.

Genus **ANTHUS** Bechstein.

**Anthus hodgsoni** Richm. Tree-Pipit.

[**Anthus hodgsoni hodgsoni** Richm.

*Anthus hodgsoni* Richmond, Publ. Carnegie Inst. Wash. No. 54, 1907, p. 493: new name for *A. maculatus* Jerdon: Nepal.

Distr.—Extra-limital.]

**Anthus hodgsoni ? inopinatus** Hart. and Steinb.<sup>1</sup>

*Anthus hodgsoni inopinatus* Hartert and Steinbacher, Vög. pal. Faun., Ergänzungsband, Heft 2, 1933, p. 138: Sachalin.

Distr.—Malay Peninsula.

**Anthus novaeseelandiae** (Gmel.).<sup>2</sup> Richard's Pipit.

[**Anthus novaeseelandiae novaeseelandiae** (Gmel.).

*Alauda novae Seelandiae* Gmelin, Syst. Nat. i, pt. ii, 1789, p. 799: New Zealand.

Distr.—Extra-limital.]

**Anthus novaeseelandiae sinensis** (Bp.).<sup>3</sup>

*Corydalla sinensis* Bonaparte, Consp. Gen. Avium, i, 1850, p. 247: Southern China.

Distr.—Peninsular Siam.

Sumatra.<sup>4</sup>

**Anthus novaeseelandiae malayensis** Eyton.

*Anthus Malayensis* Eyton, Proc. Zool. Soc. 1839, p. 104: Malacca.

*Anthus euonyx* Cab., Mus. Hein. i, 1850, p. 14: Java.

*Anthus hasseltii* Schleg., Handl. Dierk. i, 1857, p. 263: Java.

Distr.—Malay Peninsula.

Sumatra; Rhio Archipelago; Nias Island, West Sumatra.

Borneo.

Java.

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<sup>1</sup> The few winter birds known from the Malay Peninsula are here, tentatively, referred to *inopinatus* purely on geographic grounds. *A. hodgsoni* is, perhaps, only a subspecies of *A. trivialis* Linn.

<sup>2</sup> Revisions: Stres., Nov. Zool. xix, 1932, p. 315; Meinertz., Ibis, 1921, p. 651.

<sup>3</sup> *A. n. richardi* Vieill. occurs in South-west Siam and therefore will almost certainly be found in our area.

<sup>4</sup> New record.

**Anthus novaeseelandiae albidus** Stres.

*Anthus richardi albidus* Stresemann, Nov. Zool. xix, 1912, p. 316 : South Flores.

Distr.—Bali.

**Anthus campestris** (Linn.).

Tawny Pipit.

[**Anthus campestris campestris** (Linn.).

*Alauda campestris* Linn., Syst. Nat. 10th. ed. 1758, p. 166 : Sweden.

Distr.—Extra-limital.]

**Anthus campestris striolatus** Blyth.

*Anthus striolatus* Blyth, Journ. Asiat. Soc. Bengal, xvi, 1847, p. 435 : Darjiling.

Distr.—Christmas Island, Indian Ocean.<sup>2</sup>

**Anthus gustavi** Swinh.

Siberian Pipit.

\***Anthus gustavi gustavi** Swinh.

*Anthus gustavi* Swinhoe, Proc. Zool. Soc. 1863, p. 90 : Amoy.

Distr.—Borneo.

**Anthus rufogularis** Brehm.

Red-throated Pipit.

*Anthus rufogularis* Brehm, Lebrb. Naturg. eur Vög. ii, 1824, p. 963 : Nubia.

Distr.—Peninsular Siam.

## Family ALAUDIDÆ.

### Genus MIRAFA Horsfield.

**Mirafra javanica** Horsf.

Bush-Lark.

**Mirafra javanica javanica** Horsf.<sup>1</sup>

*Mirafra javanica* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 159 : Java.

*Alauda mirafra* Temm., Pl. Col. 305, 1824 : Java.

*Mirafra borneensis* Swinh., Ann. Mag. Nat. Hist. (4) vii, 1871, p. 257 : Banjermasin, South Borneo.

Distr.—Borneo (south).

Java; Bali.

<sup>1</sup> *Mirafra cantillans williamsoni* Baker, Bull. Brit. Orn. Cl. xxxvi, 1915, p. 9 (Bangkok) is extremely close to this form.

<sup>2</sup> One specimen only, a puzzling bird and identification not absolutely certain. Formerly recorded as *malayensis*.

FRINGILLIDÆ.

Family FRINGILLIDÆ.

Genus **SERINUS** Koch.

- \*Serinus estherae** (Finsch). Javan Greenfinch.  
*Crithagra Estherae* Finsch, Notes Leyd. Mus. xxiii, 1902, p. 151:  
 West Java.  
*Distr.*—Java (west).

Genus **PASSER** Brisson.

- Passer montanus** (Linn.). Tree-Sparrow.  
**[Passer montanus montanus** (Linn.).  
*Fringilla montana* Linn., Syst. Nat. 10th. ed. 1758, p. 183: Italy.  
*Distr.*—Extra-limital.]  
**Passer montanus malaccensis**<sup>1</sup> Dub.  
*Passer malaccensis* Dubois, Fauna Ill. Vert. Belg., Ois. 1, 1885,  
 p. 572: Malacca.  
*Distr.*—Malay Peninsula.  
 Sumatra; Rhio Archipelago.  
 Java; Bali.  
**Passer flaveolus** Blyth. Pegu House-Sparrow.  
*Passer flaveolus* Blyth, Journ. Asiat. Soc. Bengal, xiii, 1844, p.  
 946: Arracan.  
*Distr.*—Peninsular Siam.

Genus **PYRRHULA** Brisson.

- Pyrrhula nipalensis** Hodgs. Bullfinch.  
**[Pyrrhula nipalensis nipalensis** Hodgs.  
*Pyrrhula nipalensis* Hodgson, Asiat. Res. xix, 1836, p. 155: Nepal.  
*Distr.*—Extra-limital.]  
**Pyrrhula nipalensis waterstradti** Hart.  
*Pyrrhula waterstradti* Hartert, Bull. Brit. Orn. Cl. xii, 1902, p. 69:  
 Mt. Tahan, Malay States.  
*Distr.*—Malay States.

Genus **EMBERIZA** Linn.

- Emberiza aureola** Pall. Yellow-breasted Bunting.  
**Emberiza aureola aureola** Pall.<sup>2</sup>  
*Emberiza Aureola* Pallas, Reise Prov. Russ. Reichs. ii, 1773, p. 711:  
 Irtysh.  
*Distr.*—Malay Peninsula.

<sup>1</sup> There seems to be no reliable record for Borneo.

<sup>2</sup> We have placed our birds under the typical race, but are not absolutely certain of their subspecific identity.

**\*Emberiza pusilla** Pall.

Little Bunting.

*Emberiza pusilla* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 697 :  
Daurian Alps.*Distr.*—Borneo.

## Family PLOCEIDÆ.

Genus **AMANDAVA** Blyth.**Amandava amandava** (Linn.).<sup>1</sup>

Amandavat.

[*Amandava amandava amandava* (Linn.).*Fringilla Amandava* Linn., Syst. Nat. 10th. ed. 1758, p. 180 :  
Bengal.*Distr.*—Extra-limital.]**Amandava amandava punicea** (Horsf.).*Fringilla punicea* Horsf., Trans. Linn. Soc. xiii, 1821, p. 160 : Java.*Distr.*—Sumatra (introd.).  
Java; Bali.Genus **PADDA** Reichenbach.**Padda oryzivora** (Linn.).<sup>2</sup>

Java Sparrow.

***Padda oryzivora oryzivora*** (Linn.).*Loxia oryzivora* Linn., Syst. Nat. 10th. ed. 1758, p. 173 : "Asia" =  
Java.*Loxia javensis* Sparrm., Mus. Carls. iv, 1789, pl. 89 : Java.*Padda verecunda* Reich., Singv. 1861, p. 41, pl. xv, fig. 133 : Java.*Oryzivora leucotis* Jerd., Birds Brit. Ind., ii, 1863, p. 359 : China.*Distr.*—Malay States.

Sumatra; Rhio Archipelago; Billiton.

Borneo.

Java; Bali; Kangean Islands; Christmas Island; Cocos-  
Keeling Islands.

<sup>1</sup> Various forms of this species have been imported into Singapore but have died out.

<sup>2</sup> This species is now established in so many countries where it is not indigenous that its original natural range is now problematical, although there is reason for supposing that it was restricted to Java and Bali.



Genus **MUNIA** Hodgson.

**Munia atricapilla** (Vieill.). Black-headed Munia.

**Munia atricapilla atricapilla** (Vieill.).

*Loxia atricapilla* Vieillot, Ois. Chanteurs, 1807, p. 84, pl. 53 :  
Lower Bengal (*restr. Rob. and Kloss, 1923*).

*Distr.*—Peninsular Siam.<sup>1</sup>

**Munia atricapilla sinensis** Blyth.

*Munia sinensis* Blyth, Cat. Bds. Asiat. Soc. Bengal, 1849, p. 337 :  
Penang.

*Munia sumatrensis* Bartlett, Monograph of Weaver Birds, 1888, p. 29,  
pl. 5 : Sumatra.

*Distr.*—Malay States.

Sumatra (lowlands); Rhio Archipelago.

**Munia atricapillaatakana** Chas. and Kloss.

*Munia atricapillaatakana* Chasen and Kloss, Bull. Raffles Mus. ii,  
1929, p. 23 : Brastagi, Battak Highlands, North Sumatra.

*Distr.*—Sumatra (mountains).

**Munia atricapilla ferruginosa** (Sparrm.).

Black-throated Munia.

*Loxia ferruginosa* Sparrman, Mus. Carls. iv, 1789, pls. 90, 91 :  
Java.

*Fringilla majanoide* Temm., Pl. Col. 500, 1830 : Java.

*Distr.*—Java; Bali.

**Munia atricapilla minuta**<sup>2</sup> (Mey.).

*Fringilla minuta* Meyen, Verh. Carol.-Leopold. Akad. d. Naturf.  
xvi, 1834, Suppl. p. 86 t. 12 : Philippine Islands.

*Distr.*—Borneo; Natuna Islands.

**Munia maja** (Linn.).

White-headed Munia.

**Munia maja maja** (Linn.).

*Loxia Maja* Linn., Syst. Nat. 12th. ed. i, 1766, p. 301 : East Indies  
= Malacca (*restr. Rob. and Kloss, 1924*).

*Loxia leucocephala* Raffles, Trans. Linn. Soc. xiii, 1822, p. 314 : Sumatra.

*Munia maja sapercna* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 521 :  
Java.

*Distr.*—Malay Peninsula.

Sumatra; Nias.

Java; Bali.

<sup>1</sup> Perhaps here not quite *atricapilla* but *atricapilla* > *sinensis*.

<sup>2</sup> A review of this species is needed for the races seem curiously mixed in Malaysia, the Philippines, and Celebes. Birds from Borneo and the Natunas have been referred to *brunneiceps* Wald., of Macassar, Celebes, but some skins from North Borneo, and from the Natuna Islands are nearer to *minuta* (syn. *jagori*).

\***Munia maja simalurensis** Oberh.

*Munia. maja simalurensis* Oberholser, Journ. Wash. Acad. Sci. xvi, 1926, p. 521: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**Munia punctulata** (Linn.).<sup>1</sup>

Spotted Munia.

**Munia punctulata punctulata** (Linn.).

*Munia punctulata* Linn., Syst. Nat. 10th. ed. 1758, p. 173: Asia = Java (Gmel., 1789).

*Loxia undulata* P. L. S. Müller, Syst. Nat. Anhang, 1776, p. 131: Java.

*Loxia punctularia* Gmel., Syst. Nat. i, pt. 2, 1789, p. 851: Java.

*Munia nisor* Temm., Pl. Col. 500, fig. 2, 1830: Java.

*Distr.*—Java; Bali; Bawean Island.

**Munia punctulata fretensis** Kloss.

*Munia punctulata fretensis* Kloss, Treubia, xiii, 1931, p. 363: Kuala Lumpur, Selangor, Malay States.

*Distr.*—Malay States.<sup>3</sup>  
Sumatra; Nias Island.

**Munia striata** (Linn.).

Sharp-tailed Munia.

[**Munia striata striata** (Linn.).

*Loxia striata* Linn., Syst. Nat. 12th. ed. i, 1766, p. 306: Ceylon.]

**Munia striata subsquamicollis** (Baker).

*Uroloncha striata subsquamicollis* Stuart Baker, Bull. Brit. Orn. Cl., xlv, 1925, p. 59: South Tenasserim.

*Uroloncha acuticauda lepidota* Oberh., Journ. Wash. Acad. xvi, 1926, p. 520: Trang, Peninsular Siam.

*Distr.*—Malay Peninsula.  
Sumatra; Banka.

**Munia leucogastra** (Blyth).

White-bellied Munia.

**Munia leucogastra leucogastra** (Blyth).

*Amandina leucogastra* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 286: Malacca.

*Munia chrysura* Blyth, Ibis, 1870, p. 172: nom. nud.

*Distr.*—Malay Peninsula.  
Sumatra.  
Borneo.<sup>4</sup>

<sup>1</sup> Revision: Stres., Nov. Zool. xix, 1912, p. 317.

<sup>2</sup> Reference to the two works indicates that Gmelin's *punctularia* is the same thing as *punctulata* Linn.

<sup>3</sup> The form occurring at Koh Lak in South-west Siam is *subundulata* Godw. Aust., but unfortunately we have never seen birds from Peninsular Siam.

<sup>4</sup> Apparently not common, but it occurs in the neighbourhood of Kuching in Sarawak.

**Munia leucogastra leucogastroides** Horsf. and Moore.

*Munia leucogastroides* Horsfield and Moore, Cat. Bds. Mus. East Ind. Coy. ii, 1856, p. 510: Java.

*Trichogramoptila melanopygia* Reichenb., Singv. 1861, pp. 39, 48. Taf. 17, figs. 153, 154: Sumatra.

Distr.—Sumatra.<sup>1</sup>

Java; Bali.

**Munia fuscans** (Cass.).

Brown Munia.

*Spermestes fuscans* Cassin, Proc. Phil. Acad. vi, 1852, p. 185: Borneo.

*Fringilla nigerima* Cass., Proc. Phil. Acad. vi, 1852, p. 185: nom. nud.

*Fringilla aterrima* Cass., Proc. Phil. Acad. vi, 1852, p. 185: nom. nud.

Distr.—Borneo; Banguey Island; Natuna Islands.

**Munia molucca** (Linn.).

Moluccan Munia.

[*Munia molucca molucca* (Linn.).

*Loxia molucca* Linn., Syst. Nat. 12th ed. i, 1766, p. 302: Amboina.

Distr.—Extra-limital.]

**\*Munia molucca propinqua** (Sharpe).

*Uroloncha propinqua* Sharpe, Cat. Birds, xiii, 1890, p. 368: Flores.

*Uroloncha kangeangensis* Vorderm., Nat. Tijds. Ned. Ind. 1893, lii, p. 199: Kangean Island.

Distr.—Kangean Islands.

Genus **ERYTHURA** Swainson.<sup>2</sup>

**Erythura prasina** (Sparrm.).

Long-tailed Munia.

*Erythura prasina prasina* (Sparrm.).

*Loxia prasina* Sparrman, Mus. Carls. 1788, pls. 72, 73: Java.

*Emberiza quadricolor* Gmel., Syst. Nat. i, pt. 2, 1789, p. 886: Java.

*Emberiza cyanopsis* Gmel., Syst. Nat. i, pt. 2, 1789, p. 886: Java.

*Fringilla sphenura* Temm., Pl. Col. 96, 1822: Java.

*Fringilla sphenura* Swains. in Jard. Nat. Libr., Birds West Africa, i, 1837, p. 204: nom. nov.

*Erythura viridis* Swains. in Jard. Nat. Libr., Birds West Africa, i, 1837, p. 204, footnote: nom. nov.

Distr.—Malay Peninsula.

Sumatra.

Java.

<sup>1</sup> Both *leucogastra* and *leucogastroides* occur in South Sumatra: the latter is probably introduced.

<sup>2</sup> Cf. Mayr, Amer. Mus. Nov. 1931, p. 489, p. 1.

PLOCEIDÆ.

**Erythura prasina cœlica** Baker.

*Erythrura prasina cœlica* Stuart Baker, Bull. Brit. Orn. Cl., xlv, 1925, p. 84: Borneo.

*Distr.*—Borneo.

**Erythura hyperythra** (Reichenb.).

Bamboo-Munia.

**Erythura hyperythra hyperythra** (Reichenb.).

*Chlorura hyperythra* Reichenbach, Singvög. 1862, p. 33, tab. xi, fig. 97: New Guinea error=Java.

*Distr.*—Java (west).

**Erythura hyperythra malayana** (Rob.).

*Chlorura hyperythra malayana* Robinson, Bull. Brit. Orn. Cl., xlviii, 1928, p. 72: Cameron's Highlands, Malay States.

*Distr.*—Malay States.

**Erythura hyperythra borneensis** (Sharpe).

*Chlorura borneensis* Sharpe, Ann. Mag. Nat. Hist. (6) iii, 1889, p. 424: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

Genus **PLOCEËLLA** Hume.

**Ploceëlla hypoxantha** (Sparrm.).<sup>1</sup>

Golden Weaver-Finch.

**Ploceëlla hypoxantha hypoxantha** (Sparrm.).<sup>2</sup>

*Loxia hypoxantha* Sparrman, Mus. Carls. iii, 1788, tab. 71: Sumatra.

*Loxia javanensis* Less., Traité d'Orn. 1831, p. 446: Java.

*Distr.*—Sumatra.

Java.

Genus **PLOCEUS** Cuvier.

**Ploceus philippinus** (Linn.).

Weaver-Finch.

[**Ploceus philippinus philippinus** (Linn.).

*Loxia philippina* Linn., Syst. Nat. 12th. ed. i, 1766, p. 305: Philippines error=Ceylon.

*Distr.*—Extra-limital.]

<sup>1</sup> The Continental form of this species seems separable and is *P. h. chrysea* Hume (Tenasserim).

<sup>2</sup> At one time introduced birds were apparently well-established and breeding in the Cocos-Keeling Islands.

**Ploceus philippinus infortunatus** Hart.<sup>1</sup>

*Ploceus passerinus infortunatus* Hartert, Nov. Zool. ix, 1902, p. 578: Pahang, Malay States.

*Distr.*—Malay Peninsula.

Sumatra; Nias Island.

Java.

**Ploceus manyar** (Horsf.).<sup>2</sup>

Streaked Weaver-Finch.

**Ploceus manyar manyar** (Horsf.).

*Fringilla Manyar* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 160: Java.

*Nelicurvius emberizinus* Reichenb., Singv. 1861, p. 76, t. 34, figs. 269—272: Ceram=Java.

*Distr.*—Java; Bali; Bawean Island.

## Family STURNIDÆ.

### Genus STURNOPASTOR Blyth.

**Sturnopaster contra** (Linn.).

Rose-coloured Starling.

[**Sturnopaster contra contra** (Linn.).

*Sturnus Contra* Linn., Syst. Nat. 10th. ed. 1758, p. 167: India.

*Distr.*—Extra-limital.]

**Sturnopaster contra jalla** (Horsf.).

*Pastor Jalla* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 155: Java.

*Pastor oricularius* Drap., Dict. Class. vii, 1841, p. 153: Java.

*Distr.*—Sumatra.

Java; Bali.

### Genus STURNIA Lesson.

**Sturnia sinensis** (Gmel.).

Chinese Starling.

*Oriolus sinensis* Gmelin, Syst. Nat. i, pt. i, 1788, p. 394: China.

*Distr.*—Malay Peninsula.

**\*Sturnia philippensis** (Forst.).

Violet Starling.

*Motacilla philippensis* Forster, Ind. Zool., 1781, p. 41: Philippine Islands.

*Distr.*—Borneo.

<sup>1</sup> Cf. Ticehurst, Bull. B. O. C. lii, 1932, p. 104.

<sup>2</sup> Stres., Nov. Zool. xix, 1912, p. 318.

**Sturnia sturnina** (Pall.).

Daurian Starling.

*Gracula sturnina* Pallas, Reise Prov. Russ. Reichs. iii, 1776, p. 695 : Dauria.*Turdus striga* Raffles, Trans. Linn. Soc. xiii, 1822, p. 311 : Sumatra.*Pastor malayensis* Eyton, Proc. Zool. Soc. 1839, p. 103 : Malacca.*Distr.*—Malay Peninsula.

Sumatra; Simalur and Sipora Islands, West Sumatra.

Java.

Genus **AMPELICEPS** Blyth.**Ampeliceps coronatus** Blyth.

Gold-crested Myna.

*Ampeliceps coronatus* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 194 : Tenasserim.*Distr.*—Peninsular Siam.Genus **GRACUPICA** Lesson.<sup>1</sup>**Gracupica melanoptera** (Daud.).

Javan Myna.

**Gracupica melanoptera melanoptera** (Daud.).<sup>2</sup>*Gracula melanoptera* Daudin, Traité d'Orn. ii, 1800, p. 286 : West Java.*Distr.*—Java (west).**Gracupica melanoptera tricolor** (Horsf.).*Pastor tricolor* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 155 :

Java (restr., East Java, Rob. and Kloss, 1924).

*Distr.*—Java (east).**Gracupica melanoptera tertia** Hart.*Graculipica tertia* Hartert, Nov. Zool. iii, 1896, p. 547 : Bali.*Distr.*—Bali.Genus **ACRIDOTHERES** Vieillot.**Acridotheres tristis** (Linn.).

Common Myna.

**Acridotheres tristis tristis** (Linn.).*Paradisea tristis* Linn., Syst. Nat. 12th. ed. i, 1766, p. 167 :

Philippines, error = Calcutta (Baker).

*Distr.*—Peninsular Siam.<sup>3</sup><sup>1</sup> *Gracupica leucocephala* has been recorded from Perak, but we do not believe the bird exists there in a wildstate.<sup>2</sup> Has been introduced into Singapore but seems to have died out.<sup>3</sup> Introduced birds are established in several places in the Malay States, notably in Perak and Province Wellesley. There are a few pairs on Singapore Island.

Genus **ÆTHIOPSAR** Oates.**Æthiopsar fuscus** (Wagl.).[**Æthiopsar fuscus fuscus** (Wagl.).*Pastor fuscus* Wagler, Syst. Avium, 1827, *Pastor*, sp. 6: India = Nepal (*restr.*, Rob. and Kloss, 1924).**Æthiopsar fuscus torquatus** (Davison).

Buffalo Myna.

*Acridotheres torquatus* Davison, Ibis, 1892, p. 102: Pahang.*Distr.*—Malay Peninsula.**Æthiopsar grandis** (Horsf. and Moore).

Jungle Myna.

[**Æthiopsar grandis grandis** (Horsf. and Moore).*Acridotheres grandis* Horsfield and Moore, Cat. Bds. Mus. East India Coy. ii, 1858, p. 537: Sumatra, error = Tenasserim (*Baker*).*Distr.*—Extra-limital.]**Æthiopsar grandis javanicus** (Cab.).*Acridotheres javanicus* Cabanis, Mus. Hein. i, 1850, p. 205: Java.*Pastor griseus* (not of Wagl. 1800) Horsf., Trans. Linn. Soc. xiii, 1821, p. 154: Java.*Distr.*—Java; Christmas Island (introd.).

Sumatra (introd.).

Genus **LEUCOPSAR** Stresemann.**Leucopsar rothschildi** Stres.*Leucopsar rothschildi* Stresemann, Bull. Brit. Orn. Cl. xxxi, 1912, p. 4: Bali.*Distr.*—Bali.Family **GRACULIDÆ**.Genus **GRACULA** Linn.**Gracula religiosa** Linn.<sup>1</sup>

Grackle.

**Gracula religiosa religiosa** Linn.<sup>2</sup>*Gracula religiosa* Linn., Syst. Nat. 10th. ed. 1, 1758, p. 108: Java.*Pastor musicus* Temm., Man. d'Orn. 2nd. ed. i, 1820, pl. 55: Java.*Eulabes javanus* Cuv., Règne Anim. 2nd. ed. i, 1829, p. 377: Java.*Mainatus sumatranus* Less., Traité d'Orn. 1830, p. 357: Sumatra.*Gracula javanensis* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 31:

Malacca.

*Distr.*—Malay Peninsula (north to Tráng).

Sumatra; Rhio Archipelago; Banka; Billiton.

Borneo; Natuna Islands; Karimata Islands.

Java; Bali; Kangean Islands; Christmas Island (introd.).

<sup>1</sup> Revisions: Stres., Nov. Zool. xix, 1912, p. 313; Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 92.<sup>2</sup> Oberholser (1932) also quotes as a synonym:—*Gracula minor* Forst., Ind. Zool. 1781; based on Edwards, Nat. hist. uncommon birds i, 1776, pl. 17, p. 17 (Borneo).

**Gracula religiosa intermedia** A. Hay.

*Gracula intermedius* A. Hay, Madr. Journ. Lit. Sci. xiii, pt. 2, 1844, p. 157 : Cachar.

*Distr.*—Peninsular Siam.

**Gracula religiosa prasiocara** Oberh.

*Gracula javana prasiocara* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 55 : Pulau Piling, Anamba Islands.

*Distr.*—Tioman Island; Anamba and Tambelan Islands.

**\*Gracula religiosa baweana** Oberh.

*Gracula javensis baweana* Oberholser, Proc. U.S. Nat. Mus. lli, 1917, p. 195 : Bawean Island.

*Distr.*—Bawean Island, Java Sea.

**Gracula religiosa miotera** Oberh.

*Gracula javanensis miotera* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 16 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**\*Gracula religiosa ophellochlora** Oberh.

*Gracula javanensis ophellochlora* Oberholser, Smiths. Misc. Coll. lx, no. 7, 1912, p. 17 : Tuanku Island, Banjak Islands.

*Distr.*—Banjak Islands, West Sumatra.

**Gracula religiosa robusta** Salvad.

*Gracula robusta* Salvadori, Ann. Mus. Civ. Gen. (2) iv, 1887, p. 554 : Nias Island.

*Distr.*—Nias and Babi Islands, West Sumatra.

**Gracula religiosa batuensis** Finsch.

*Gracula batuensis* Finsch, Notes Leyden Mus. xxi, 1899, p. 14 : Tello Island, Batu Islands.

*Distr.*—Batu and Mentawi Islands, West Sumatra.

**Gracula religiosa enganensis** Salvad.

*Gracula enganensis* Salvadori, Ann. Mus. Civ. Gen. (2) xii, 1892, p. 137 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

Genus **APLONIS** Gould.**Aplonis panayensis** (Scop.).<sup>1</sup>

Tree-Starling.

**[Aplonis panayensis panayensis** (Scop.).

*Muscicapa panayensis* Scopoli, Del Flor. et Faun. Insubr. ii, 1783, p. 96 : Philippine Islands.

*Distr.*—Extra-limital.]

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<sup>1</sup> Revisions : Stres., Zool. Nov. xx, 1913, p. 375 : Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 94.



**Aplonis panayensis strigatus** (Horsf.).

*Turdus strigatus* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 148 : Java.

*Turdus chalybeus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 148 : Java.

*Lanius insidiator* Raffles, Trans. Linn. Soc. xiii, 1822, p. 307 : Sumatra.

*Lamprocorax panayensis eustathis* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 516 : East Borneo.

*Lamprocorax panayensis halictypus* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 516 : Telibon Island, Trang, Peninsular Siam.

Distr.—Malay Peninsula.<sup>1</sup>

Sumatra; Banka; Billiton.

Borneo.

Java.

**Aplonis panayensis gusti** Stres.

*Aplonis panayensis gusti* Stresemann, Nov. Zool. xx, 1913, p. 375 : Bali.

Distr.—Bali.

**Aplonis panayensis heterochlorus** (Oberh.).

*Lamprocorax panayensis heterochlorus* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 57 : Mobur Island, Anamba Islands.

Distr.—Aor and Tioman Islands; Rhio Archipelago; Anamba Islands; Tambelan Islands.

Natuna Islands; Mantanani Islands; North Bornean Islands; Karimata Islands.

**\*Aplonis panayensis richmondi** (Oberh.).

*Lamprocorax panayensis richmondi* Oberholser, Proc. U.S. Nat. Mus. lv, 1919, p. 272 : Taya Island, South-east Sumatra.

Distr.—Taya Island, South-east Sumatra.

**Aplonis panayensis alipodis** (Oberh.).

*Lamprocorax panayensis alipodis* Oberholser, Journ. Wash. Acad. Sci. xvi, 1926, p. 516 : Panjang Island, near Maratua Island, East Borneo.

*Aplonis panayensis suggrandis* Bangs and Peters, Occ. Pap. Bost. Soc. Nat. Hist. v, 1927, p. 241 : Maratua Island, East Borneo.

Distr.—Maratua Islands, East Borneo.

**Aplonis panayensis altirostris** (Salvad.).

*Calornis altirostris* Salvadori, Ann. Mus. Civ. Gen. (2) iv, 1887, p. 553, pl. 9, fig. 1 : Nias Island.

\**Lamprocorax chalybeus rhadinorhynchus* Oberh., Smiths. Misc. Coll. lx, No. 7, 1912, p. 17 : Simalur Island.

\**Lamprocorax panayensis nesodramus* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 516 : Babi Island.

Distr.—West Sumatran islands of Simalur, Babi and Nias.

<sup>1</sup> Birds from the Malay Peninsula are really *A. p. strigatus* > *affinis* Blyth. While it seems clear that the northern part of Sumatra is occupied by a small race (*strigatus*), I have recently been puzzled by the receipt of three very large birds with wings measuring 108—115 mm. Perhaps they are migrants from elsewhere.

**\*Aplonis panayensis leptorrhynchus** Stres.

*Aplonis panayensis leptorrhynchus* Stresemann, Nov. Zool. xx, 1913,  
p. 377 : Pinie Island, West Sumatra.

*Distr.*—Batu Islands, West Sumatra.

**Aplonis panayensis pachistorhinus** (Oberh.).

*Lamprocorax chalybeus pachistorhinus* Oberholser, Smiths. Misc.  
Coll. lx, no. 7, 1912, p. 17 : South Pagi Island.

*Distr.*—Mentawi Islands (Siberut, Sipora, Pagi), West Sumatra.

**\*Aplonis panayensis enganensis** (Salvad.).

*Calornis enganensis* Salvadori, Ann. Mus. Civ. Gen. (2) xii, 1892,  
p. 137 : Engano Island.

*Distr.*—Engano Island, West Sumatra.

**Aplonis minor** (Bp.).

Small Tree-Starling.

**Aplonis minor minor** (Bp.).

*Lamprotornis minor* Bonaparte, Consp. Gen. Avium i, 1850, p. 417 :  
Timor.

*Distr.*—Java; Bali.

## Family ORIOLIDÆ.

Genus **ORIOLUS** Linn.<sup>1</sup>**Oriolus chinensis** (Linn.).

Black-naped Oriole.

**[Oriolus chinensis chinensis** Linn.

*Oriolus chinensis* Linn., Syst. Nat. 12th. ed. i, 1766, p. 160 :  
China error = Manila (*restr. Meinertzhagen, 1923*).

*Distr.*—Extra-limital.]

**Oriolus chinensis diffusus** Sharpe.

*Oriolus diffusus* Sharpe, Cat. Bds. Brit. Mus. iii, 1877, p. 197 :  
Malabar.

*Distr.*—Malay Peninsula.

**Oriolus chinensis maculatus** Vieill.

*Oriolus maculatus* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, xviii,  
1817, p. 194 : Java.

*Oriolus coronatus* Swains., Anim. in Menag. 1838, p. 342 : Java.

*Oriolus horsfieldi* Bp., Consp. Gen. Av. i, 1850, p. 348 : "Malaiasia"  
= Java.

*Distr.*—Sumatra; Billiton; Banka; Nias (? subsp.).

Borneo.

Java; Bali.

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<sup>1</sup> Review : Meinertzhagen, Ibis, 1923, p. 52.

ORIOLIDÆ.

\**Oriolus chinensis insularis* Vordérth.

*Oriolus insularis* Vorderman, Nat. Tijds. Ned. Ind. lii, 1893, p. 200 : Kangean Island.

*Distr.*—Kangean Islands; islands of Saptidi and Raas, east of Madura.

\**Oriolus chinensis lamprochryseus* Oberh.

*Oriolus maculatus lamprochryseus* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 186 : Solombo Besar Island, Java Sea.

*Distr.*—Solombo Besar and Arends Island, Java Sea.

*Oriolus chinensis mundus* Richm.

*Oriolus mundus* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 517 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

*Oriolus chinensis siberu* Chas. and Kloss.

*Oriolus chinensis siberu* Chasen and Kloss, Ibis, 1926, p. 294 : Siberut Island.

*Distr.*—Siberut Island, West Sumatra.

*Oriolus chinensis sipora* Chas. and Kloss.

*Oriolus chinensis sipora* Chasen and Kloss, Ibis, 1926, p. 294 : Sipora Island.

*Distr.*—Sipora Island, West Sumatra.

\**Oriolus chinensis richmondi* Oberh.

*Oriolus maculatus richmondi* Oberholser, Smiths. Inst. Misc. Coll. lx, no. 7, 1912, p. 16 : North Pagi Island.

*Distr.*—Pagi Islands, West Sumatra.

*Oriolus xanthornus* (Linn.).

Indian Black-headed Oriole.

[*Oriolus xanthornus xanthornus* (Linn.).

*Coracias xanthornus* Linn., Syst. Nat. 10th. ed. 1758, p. 108 : Bengal.

*Distr.*—Extra-limital.]

*Oriolus xanthornus thaiocous* Hart.

*Oriolus luteolus thaiocous* Hartert, Bull. Brit. Orn. Cl. xxxviii, 1918, p. 63 : Koh Lak, South-west Siam.

*Distr.*—Peninsular Siam.<sup>1</sup>  
Sumatra.

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<sup>1</sup> More precisely, south to the Langkawi Islands.

\**Oriolus xanthornus tanakae* Kuroda.\*

*Oriolus xanthornus tanakae* Kuroda, *Tori*, iv, 19, 1925, p. 3 :  
Tawao, east coast of British North Borneo.

*Distr.*—Borneo; Maratua Islands.

*Oriolus xanthonotus* Horsf.

Black-headed Oriole.

*Oriolus xanthonotus xanthonotus* Horsf.

*Oriolus Xanthonotus* Horsfield, *Trans. Linn. Soc.* xiii, 1821, p. 152 :  
Java.

*Xanthonotus leucogaster* Temm., *Pl. Col.* 214, 1823 : Java.

*Oriolus castanopterus* Blyth, *Journ. As. Soc. Bengal*, xi, 1842, p. 796 :  
Singapore.

*Distr.*—Malay Peninsula.  
Sumatra; Banka.  
Borneo (west).  
Java.

*Oriolus xanthonotus consobrinus* Wardl. Rams.

*Oriolus consobrinus* Wardlaw Ramsay, *Proc. Zool. Soc.* 1879, p.  
709 : Sandakan, North Borneo.

*Distr.*—Borneo (north); North Bornean Islands.

*Oriolus xanthonotus mentawi* Chas. and Kloss.

*Oriolus xanthonotus mentawi* Chasen and Kloss, *Ibis*, 1926, p. 295 :  
Siberut Island.

*Distr.*—Siberut and Sipora Islands, West Sumatra.

*Oriolus hosii* Sharpe.

*Oriolus hosii* Sharpe, *Bull. Brit. Orn. Cl.*, i, 1892, p. 4 : Mt. Dulit,  
Sarawak, Borneo.

*Distr.*—Borneo.

*Oriolus cruentus* (Wagl.).

Black-and-Crimson Oriole.

*Oriolus cruentus cruentus* (Wagl.).

*Leptopteryx cruentus* Wagler, *Syst. Av.*, 1827, addit. *Leptopteryx*,  
sp. 9 : Java.

*Ocypterus sanguinolentus* Temm., *Pl. Col.* 499, 1830, pl. 499 : Java.

*Erythrolane rubropectus* Less., *Rev. Mag. Zool.* 1840, p. 274 : new name  
only (nud.).

*Distr.*—Java.

*Oriolus cruentus consanguineus* (Wardl. Rams.).

*Analcipus consanguineus* Wardlaw Ramsay, *Ibis*, 1881, p. 33, pl. 1,  
figs. 2, 3 : Sumatra.

*Distr.*—Sumatra.

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\* The recent discovery of an, apparently, resident race of this Oriole in Borneo, where its range must be very restricted, is remarkable.

**Oriolus cruentus malayanus** Rob. and Kloss.

*Oriolus cruentus malayanus* Robinson and Kloss, Journ. Fed. Malay States Mus. xi, 1923, p. 56: Semangko Pass, Malay States.

*Distr.*—Malay States.

**Oriolus cruentus vulneratus** Sharpe.

*Oriolus vulneratus* Sharpe, Ibis, 1887, p. 437: Mt. Kinabalu, North Borneo.

*Distr.*—Borneo.

Family DICRURIDÆ.

Genus **DICRURUS** Vieillot.

**Dicrurus annectans** (Hodgs.).<sup>1</sup> Crow-billed Drongo.

**Dicrurus annectans annectans** (Hodgs.).

*Bhuchanga annectans* Hodgson, Ind. Rev. i, 1837, p. 326: Nepal.

*Edolius affinis* Blyth, Journ. Asiat. Soc. Bengal, xi, 1842, p. 174: Malacca.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

Java (west).

**Dicrurus macrocercus** Vieill.<sup>2</sup> Black Drongo.

**\*Dicrurus macrocercus macrocercus** Vieill.

*Dicrurus macrocercus* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, ix, 1817, p. 588: Peninsular India.

*Distr.*—Extra-limital.]

**Dicrurus macrocercus cathæcus** Swinh.

*Dicrurus cathæcus* Swinhoe, Proc. Zool. Soc. 1871, p. 377: South China.

*Distr.*—Peninsular Siam.

**Dicrurus macrocercus javanus** Kloss.<sup>4</sup>

*Dicrurus macrocercus javanus* Kloss, Journ. Fed. Malay States Mus. x, 1921, p. 208: East Java.

*Distr.*—Java; Bali.

<sup>1</sup> Revision, Baker, Nov. Zool. xxvi, 1919, p. 41.

<sup>2</sup> Revision, Baker, Nov. Zool. xxv, 1918, p. 296; Kloss, Journ. F.M.S. Mus. x, 1921, p. 207; Ticehurst, Bull. B. O. C. liii, 1932, p. 20.

<sup>3</sup> Stephen's selection of "India" for the type locality of *D. indicus* (1826), based on "Le Drongolon" of Levaillant is earlier than Cabanis' fixation of "Java" for *D. bilobus* (1850) based on the same plate.

<sup>4</sup> We suggest that "*Buchanga atra* Herm." Richm., Proc. U.S. Nat. Mus. xvi, 1903, p. 516 is *Dicrurus annectans*.

**Dicrurus longicaudatus** Jerd.

Grey Drongo.

[**Dicrurus longicaudatus longicaudatus** Jerd.

*Dicrurus longicaudatus* Jerdon, Madras Journ. Lit. Sci. xiii, pt. 2, 1845, p. 121: Nilgiris.

*Distr.*—Extra-limital.]

**Dicrurus longicaudatus intermedius** Blyth.

*Dicrurus intermedius* Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 298: Penang.

*Distr.*—Malay Peninsula (south to Perak).

**Dicrurus leucophaeus** Vieill.<sup>1</sup>

Ashy Drongo.

**Dicrurus leucophaeus leucophaeus** Vieill.

*Dicrurus leucophaeus* Vieillot, Nov. Dict. d'Hist. Nat., ed. 2, ix, 1817, p. 587: Ceylon error=Java (*Tweeddale*, 1878).

*Edolius cineraceus* Horsf., Trans. Linn. Soc. xiii, 1821, p. 145: Java.

*Dicrurus ceylonensis* Stephs., in Shaw's Gen. Zool. (Aves) xiii, (2) 1826, p. 140: Java.

*Dicrurus cinereus* Swains., Class Bds. ii, 1837, p. 223: Java.

*Distr.*—Java; Bali.

**Dicrurus leucophaeus phaedrus** Reichen.

*Buchanga stigmatops phaedra* Reichenow, Wissensch. Ergebn. Deutsch Tiefsee Exped. vii, 1904, p. 356: West Sumatra.

*Buchanga leucophaea batakenensis* Rob. and Kloss, Journ. Straits Branch Roy. Asiat. Soc. lxxx, 1919, p. 125: North-east Sumatra.

*Distr.*—Sumatra.

**Dicrurus leucophaeus stigmatops** Sharpe.

*Buchanga stigmatops* Sharpe, Proc. Zool. Soc. 1879, p. 247: North-west Borneo.

*Buchanga leucophaea penrissenensis* Harrison and Hartley, Bull. B. O. Cl. liv, 1934, p. 157: Mt. Penrissen, Sarawak.

*Buchanga leucophaea dulitensis* Harr. and Hart., Bull. B. O. Cl. liv, 1934, p. 158: Mt. Dulit, Sarawak.

*Distr.*—Borneo.

**Dicrurus leucophaeus leucogenis** (Wald.).

*Buchanga leucogenis* Walden, Ann. Mag. Nat. Hist. (4), v, 1870, p. 219: Japan, error=Yunnan (*restr. Kloss*, 1931).

*Dicrurus leucogenys* var. *salangensis*<sup>2</sup> Reichen., Nomenc. Mus. Hein. 1890, p. 69: Junk Seylon.

*Distr.*—Malay Peninsula.

<sup>1</sup> Revisions: Baker, Nov. Zool. xxv, 1918, p. 291; Stres., Orn. Monatsber. xxxviii, 1930, p. 58; Kloss, Treubia, xiii, 1931, p. 358.

<sup>2</sup> We have not seen this reference but the name is, no doubt, founded on a migrant and may therefore antedate *D. l. cerussatus*.

**Dicrurus leucophaeus cerussatus** (Bangs and Phillips).

*Buchanga leucogenys cerussata* Bangs and Phillips, Bull. Mus. Comp. Zool. Harvard, lviii, 1914, p. 302 : Hupeh, China.

*Distr.*—Peninsular Siam.

**\*Dicrurus leucophaeus celaenus** Oberh.

*Dicrurus cineraceus celaenus* Oberholser, Smiths. Misc. Coll. 1x, no. 7, 1912, p. 15 : Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**Dicrurus leucophaeus siberu** Chas. and Kloss.

*Dicrurus leucogenis siberu* Chasen and Kloss, Ibis, 1926, p. 294 : Siberut Island.

*Distr.*—Siberut Island, West Sumatra.

**Dicrurus leucophaeus periophthalmicus** Salvad.

*Buchanga periophthalmica* Salvadori, Ann. Mus. Genov. (2) xiv, 1894, p. 594 : Sipora Island.

*Dicrurus leucogenis diporus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 15 : North Pagi Island, West Sumatra.

*Distr.*—Sipora and Pagi Islands, West Sumatra.

**Dicrurus hottentottus** (Linn.).<sup>1</sup>

Hair-crested Drongo.

[*Dicrurus hottentottus hottentottus* (Linn.).

*Corvus hottentottus* Linn., Syst. Nat. 12th. ed. 1, 1766, p. 155 : Sikkim (Baker, 1919).

*Distr.*—Extra-limital.]

**Dicrurus hottentottus sumatranus** Wardl. Rams.

*Dicrurus sumatranus* Wardlaw Ramsay, Proc. Zool. Soc. 1880, p. 15 : West Sumatra.

*Distr.*—Sumatra.

**Dicrurus hottentottus borneensis** (Sharpe).

*Dicruropsis borneensis* Sharpe, Proc. Zool. Soc. 1879, p. 246 : North-west Borneo.

*Distr.*—Borneo.

**\*Dicrurus hottentottus termeuleni** (Finsch).

*Chibia ter Meuleni* Finsch, Journ. f. Orn. liv, 1907, p. 302 : Thousand Islands, Java Sea (off West Java).

*Distr.*—Thousand Islands, West Java.

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<sup>1</sup> Revision : Baker, Nov. Zool. xxvi, 1919, p. 44 ; Kloss, Journ. F.M.S. Mus. x, 1921, p. 221.

DICRURIDÆ.

**Dicrurus hottentottus jentinki** (Vorderm.).

*Chibia jentinki* Vorderman, Nat. Tijdschr. Ned. Ind. lii, 1893, p. 194: Kangean Island.

*Distr.*—Java (east); Bali; Kangean Island.

**\*Dicrurus hottentottus sirensis** (Oberh.).

*Dicruropsis pectoralis sirensis* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 198: Pulau Mata Siri, Java Sea.

*Distr.*—Mata Siri Island, Java Sea.

**\*Dicrurus hottentottus solombensis** (Oberh.).

*Dicruropsis pectoralis solombensis* Oberholser, Proc. U.S. Nat. Mus. liv, 1917, p. 184: Solombo Besar Island, Java Sea.

*Distr.*—Solombo Besar Island, Java Sea.

**Dicrurus hottentottus viridinitens** (Salvad.).

*Dicruropsis viridinitens* Salvadori, Ann. Mus. Civ. Gen. (2) xiv, 1894, p. 593: Sipora Island.

*Distr.*—Mentawi Islands (Siberut, Sipora, Pagi), West Sumatra.

**Dicrurus hottentottus suluensis** Hart.

*Dicrurus suluensis* Hartert, Nov. Zool. ix, 1902, p. 441: Sulu Islands.

*Distr.*—Maratua Islands, East Borneo.

Genus **CHAPTIA** Hodgson.<sup>1</sup>

**Chaptia aenea** (Vieill.).

Bronzed Drongo.

[**Chaptia aenea aenea** (Vieill.).

*Dicrurus aeneus* Vieillot, Nov. Dict. d'Hist. Nat., ed. 2, ix, 1817, p. 586: Bengal.

*Distr.*—Extra-limital.]

[**Chaptia aenea malayensis** Blyth.

*Chaptia malayensis* "A. Hay", Blyth, Journ. Asiat. Soc. Bengal, xv, 1846, p. 294: Malacca.

*Edolius picinus* Bp., Consp. Gen. Av. 1850, p. 352: Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

Borneo.

<sup>1</sup> Revisions: Baker, Nov. Zool. xxv, 1918, p. 303; Chas. and Kloss, Bull. Raff. Mus. 4, 1930, p. 96.



Genus **BHRINGA** Hodgson.<sup>1</sup>**Bhringa remifer** (Temm.). Lesser Racquet-tailed Drongo.**Bhringa remifer remifer** (Temm.).*Edolius remifer* Temminck, Pl. Col. 178, 1823 : Java.*Bhringa remifer sumatrana* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 57 : Korinchi, West Sumatra.*Distr.*—Sumatra.  
Java.**Bhringa remifer peracensis** Baker.*Bhringa remifer peracensis* Stuart Baker, Bull. Brit. Orn. Cl. xxxix, 1918, p. 18 : Mountains of Perak.*Bhringa remifer attenuata* Rob. and Kloss, Journ. Fed. Malay States Mus. viii, pt. 21, 1918, p. 235 : Malay States.*Distr.*—Malay States<sup>2</sup>.Genus **DISSEMURUS** Gloger.**Dissemurus paradiseus** (Linn.).<sup>3</sup> Large Racquet-tailed Drongo.**[Dissemurus paradiseus paradiseus** (Linn.).*Cuculus paradiseus* Linn., Syst. Nat. 12th. ed. i, 1766, p. 172 : Siam (restr. Bangkok to Ayuthia, Kloss, 1919).*Distr.*—Extra-limital.]**Dissemurus paradiseus malayensis** (Blyth).*Edolius malayensis* Blyth, Journ. Asiat. Soc. Bengal, xxviii, 1859, p. 272 : Penang (restr. Kloss, 1918).*Dissemurus paradiseus hypoballus* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 518 : Trang, Peninsular Siam.*Distr.*—Malay Peninsula (south to Lat. 4° N.).**Dissemurus paradiseus platurus** (Vieill.).*Dicrurus platurus* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, ix, 1817, p. 588 : Malacca (restr. Rob. and Kloss, 1920).*Dissemurus paradiseus messatus* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 519 : Singapore Island.*Dissemurus paradiseus siakensis* Oberh., Journ. Wash. Acad. Sci. xvi, 1926, p. 519 : Siak River, East Sumatra.*Dissemurus paradiseus colpiotes* Oberh., Journ. Wash. Acad. Sci. xvi, 1916, p. 520 : North-west Sumatra.*Distr.*—Malay States (south of Lat. 4° N.).

Sumatra; Rhio and Lingga Archipelagos; Banka.

<sup>1</sup> Cf. Baker, Nov. Zool. xxvi, 1919, p. 42.<sup>2</sup> Not yet actually recorded from Peninsular Siam, but almost certain to occur there.<sup>3</sup> Revisions : Rob., Journ. F.M.S. Mus. vii, 1917, p. 187; Baker, Nov. Zool. xxv, 1918, p. 299; Oberh., Bull. U.S. Nat. Mus. 159, 1932, p. 99.

**Dissemurus paradiseus microlephus** Oberh.\*

*Dissemurus paradiseus microlephus* Oberholser, Bull. U.S. Nat. Mus. 98, 1917, p. 59: Pulau Jimaja, Anamba Islands.

*Dissemurus paradiseus endomychus* Oberh., Bull. U.S. Nat. Mus. 150, 1932, p. 98: Pulau Lingung, North Natuna Islands.

*Distr.*—Anamba Islands; Tioman Archipelago.  
North Natuna Islands.

**Dissemurus paradiseus brachyphorus** (Bp.).

*Edolius brachyphorus* Bonaparte, Consp. Gen. Avium, i, 1850, p. 351: South Borneo.

*Dissemurus paradiseus insularis* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 58: Sarawak.

*Distr.*—Borneo.

**Dissemurus paradiseus banguay** Chas. and Kloss.

*Dissemurus paradiseus banguay* Chasen and Kloss, Journ. f. Ornith. 1929, ii, p. 120: Banguay Island, North Borneo.

*Distr.*—North Bornean islands of Banguay and Balambangan.

**Dissemurus paradiseus formosus** Cab.

*Dissemurus formosus* Cabanis, Mus. Hein. i, 1850, p. 111: Java.

*Dissemurus paradiseus wallacei* Hachisuka, Bull. Brit. Orn. Cl. xlvii, 1926, p. 58: East Java.

*Distr.*—Java.

**\*Dissemurus paradiseus olizurus** Oberh.

*Dissemurus paradiseus olizurus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 15: Simalur Island.

*Distr.*—Simalur Island, West Sumatra.

**\*Dissemurus paradiseus pachistus** Oberh.

*Dissemurus paradiseus pachistus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 16: Lasia Island.

*Distr.*—Lasia Island, West Sumatra.

**\*Dissemurus paradiseus elassopterus** Oberh.

*Dissemurus paradiseus elassopterus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 16: Babi Island.

*Distr.*—Babi Island, West Sumatra.

**\*Dissemurus paradiseus adelphus** Oberh.

*Dissemurus paradiseus adelphus* Oberholser, Smiths. Misc. Coll. 1x, No. 7, 1912, p. 15: Nias Island.

*Distr.*—Nias Island, West Sumatra.

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\* The races are curiously mixed in the Tioman Archipelago and some birds could be equally well referred to *platurus*.

## Family CORVIDÆ.

Genus **CORVUS** Linn.<sup>1</sup>**Corvus macrorhynchos** Wagl. Large-billed Crow.**Corvus macrorhynchos macrorhynchos** Wagl.*Corvus macrorhynchos* Wagler, Syst. Av., 1827, *Corvus* sp. 3 : Java.*Distr.*—Malay Peninsula.

Sumatra; Nias Island.

? Borneo.<sup>2</sup>

Java; Bali; Kangean Islands.

**Corvus splendens** Vieill. House-Crow.**[Corvus splendens splendens** Vieill.*Corvus splendens* Vieillot, Nov. Dict. d'Hist. Nat. ed. 2, viii, 1817, p. 44 : Bengal.*Distr.*—Extra-limital.]**Corvus splendens protegatus** Madar.*Corvus splendens protegatus* Madarasz, Orn. Monatsber. xii, 1904, p. 195 : Ceylon.*Distr.*—Malay States (introduced).**Corvus enca** (Horsf.). Slender-billed Crow.**Corvus enca enca** (Horsf.).*Fregilus enca* Horsfield, Trans. Linn. Soc. xiii, 1821, p. 164 : Java.*Distr.*—Mentawi Islands, West Sumatra.

Java; Bali.

**Corvus enca compiler** Richm.*Corvus compiler* Richmond, Proc. U.S. Nat. Mus. xxvi, 1903, p. 518. New name for *Corvus tenuirostris* Horsf. and Moore (not Brehm, 1855) Cat. Bds. Mus. East India Coy. ii, 1858, p. 558 : Bombay, error=Malacca (*Blyth*, 1863).*Distr.*—Malay States.

Sumatra; Rhio Archipelago; West Sumatran islands of Simalur and Nias.

Borneo.

<sup>1</sup> Revisions: Stres., Verh. Orn. Gesell. Bay. xii, 1916, p. 277; Kloss, Journ. F.M.S. Mus. x, 1921, p. 223; Meinert., Nov. Zool. xxxiii, 1926, p. 57.

<sup>2</sup> We seen the specimen from Labuan on which the locality "Borneo" rests and feel a little doubtful about its identity: it is not quite normal.

Genus **DENDROCITTA** Gould.**Dendrocitta occipitalis** (S. Müll.). Malaysian Tree-pie.**Dendrocitta occipitalis occipitalis** (S. Müll.).*Glaucopis occipitalis* Sal. Müller, Tijds. Nat. Ges. Phys. ii, 1835, p. 343, pl. v: Sumatra.*Dendrocitta rufigaster* Gould, Proc. Zool. Soc. 1837, p. 80: Sumatra.*Distr.*—Sumatra.**Dendrocitta occipitalis cinerascens** Sharpe.*Dendrocitta cinerascens* Sharpe, Ibis, 1879, p. 250, pl. 8: Mt. Kinabalu, North Borneo.*Dendrocitta sinensis tuckeri* Harrison and Hartley, Bull. Brit. Orn. Cl. liv, 1934, p. 156: Mt. Dulit, Sarawak.<sup>1</sup>*Distr.*—Borneo.Genus **CRYPsirina** Vieillot.**Crypsirina temia**<sup>2</sup> (Daud.). Racquet-tailed Magpie.*Corvus temia* Daudin, Traité Elem. Orn. 1800, p. 244: Africa error = Java (*Stuart Baker*, 1930).*Corvus varians* Lath., Index Orn. Suppl. 1801, p. 26: Java.*Corvus caudatus* Shaw and Nodder, Nat. Misc. xiv, 1803, pl. 561: Java.*Temia vaillantii* Schinz, Cuv.'s Thierréich, i, 1821, p. 614: Java.*Distr.*—Peninsular Siam.

Sumatra.

Java; Bali.

Genus **KITTA** Temminck.<sup>3</sup>**Kitta chinensis** (Bodd.). Hunting-Crow, or Green Magpie.**[Kitta chinensis chinensis** (Bodd.).*Coracias chinensis* Boddaert, Tabl. Pl. Enlum. 1783, p. 83: China error = South Siam (*Rob. and Kloss*, 1922).*Distr.*—Extra-limital.]

<sup>1</sup> Eighteen "*tuckeri*" from Mt. Dulit seem inseparable on size, or colour from sixteen exact topotypes of *cinerascens*. The degree of distinctness of the grey cap is a variable feature and I cannot appreciate even an average difference between the two series. The British Museum series, at first sight, does seem to indicate that in birds from Dulit the cap is relatively more sharply defined, but this is a character often influenced by the make-up of the skin, the cap being most obvious in birds in which the head is bent back with the bill in line with the tail. Measured from the base of the two central rectrices the maximum tail-length in the series before me is about 255 mm. in females, and 265 mm. in males from both localities.

<sup>2</sup> Twenty-four skins from all parts of Siam including some from the type locality of "*longipennis*" give a wing-range of 112–120 mm. against 113–119 mm. in a series from Java: c. f. Naumann, Bull. Brit. Orn. Cl. lv, 1935, p. 136.

<sup>3</sup> Revision: Delacour, Rev. Hist. Nat. x, 1929, p. 2.

**Kitta chinensis robinsoni** (O.-Grant).

*Cissa robinsoni* Ogilvie-Grant, Bull. Brit. Orn. Cl. xix, 1906, p. 9 :  
Mt. Tahan, Pahang, Malay States.

*Distr.*—Malay States.

**Kitta chinensis minor** (Cab.).

*Cissa minor* Cabanis, Mus. Hein. i, 1851, p. 86, note : Sumatra.

*Distr.*—Sumatra.

Borneo (lowlands).

**Kitta chinensis jefferyi** (Sharpe).

*Cissa jefferyi* Sharpe, Ibis, 1888, p. 383 : Mt. Kinabalu, North  
Borneo.

*Distr.*—Borneo (mountains).

**Kitta chinensis thalassina** Temm.

*Kitta thalassina* Temminck, Pl. Col. 401, 1826 : Java.

*Distr.*—Java.

Genus **PLATYSMURUS** Reichenbach.<sup>1</sup>

**Platysmurus leucopterus** (Temm.).

**Platysmurus leucopterus leucopterus** (Temm.). Wing-winged Jay.

*Glaucopis leucopterus* Temminck, Pl. Col. 265, 1824 : Sumatra.

*Distr.*—Malay Peninsula.

Sumatra.

**Platysmurus leucopterus aterrimus** (Temm.).

Black Jay.

*Glaucopis aterrimus* Temminck, Pl. Col. 1825, livr. 57 : Borneo.

*Platysmurus schlegeli* Pelzeln, Verh. Ges. Wien. xxix, 1880, p. 529 :  
Sumatra error=Borneo.

*Distr.*—Borneo.

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<sup>1</sup> In view of Reichenbach's excellent plate we can see no reason for dropping this well-established name in favour of *Glenargus* Cab. (c.f. Stuart Baker, 1930).

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